



Data Sheet Catalogue

Flamenco system family

NurseCall Systems

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INTEGRATED HEALTH & CARE LIMITED

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1. Room terminals

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ComTerminal IP, PoE, 2xMOPP

76 0510 00



General Description

Universal communication terminal with VoIP technology. Intended for use in patient rooms, staff rooms and function rooms.

Equipped as standard with all control elements required for communication between patients and staff.

The operating front made of real glass meets the highest demands in terms of cleaning, operation and design.

The ComTerminal IP offers maximum ease of operation thanks to operation via a full-colour 3.5" touch display and separate sensor buttons for presence registration, call triggering and alarm triggering.

The ComTerminal IP, PoE, 2xMOPP controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the IP network of the nurse call system (including PoE+) and the RAN room bus.

All connections are made via an integrated connection panel. An RJ45 jack is used to connect the IP network. A flexible patch cable supplied serves to connect to the RJ45 jack installed on site in the back box (e.g. keystone module, field-assembly).

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Intended for nurse call systems with local isolation according to DIN VDE 0834.

Specification

- Operating front made of real glass with integrated touch display, sensor buttons and indicators for simple and intuitive operation
- High-quality 3.5" touch display, illuminated, for operation and display of calls and information messages
- Simple operation thanks to logically arranged control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location and reassurance light, configurable
- Green presence button for staff 1 with reminder light
- Yellow presence button for staff 2 with reminder light
- Excellent voice quality through VoIP technology
- High-quality speakers and sensitive microphone
- Integrated configuration menu for selecting room functions and setting system parameters
- Integrated function monitoring with status indication
- Device language selectable by configuration
- Moisture-protected housing
- Closed, smooth surface, easy to clean and disinfect
- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- IP network of the nurse call system

- The Ethernet port is internally equipped with a separation point with 2 x MOPP according to DIN EN 60601-1 (data and power supply)
- RAN room bus for connection of further operating elements and signalling devices
- Identification for maximum 6 beds

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the operating front:	Real glass
Housing colour:	White
Power supply:	PoE+ (30 W per port on the switch)
Max. current consumption at 24 V DC ^a :	280 mA
Current available for room peripherals at 24 V DC ^a :	615 mA

^aThe terminal internally converts PoE+ into 24 V DC .

Article no.	Product name	Note
76 0510 00	ComTerminal IP, PoE, 2xMOPP	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

ComTerminal IP, PoE

76 0510 20



General Description

Universal communication terminal with VoIP technology. Intended for use in patient rooms, staff rooms and function rooms.

Equipped as standard with all control elements required for communication between patients and staff.

The operating front made of real glass meets the highest demands in terms of cleaning, operation and design.

The ComTerminal^{IP}, PoE controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the IP network of the nurse call system (including PoE+) and the RAN room bus.

All connections are made via an integrated connection panel. An RJ45 jack is used to connect the IP network. A flexible patch cable supplied serves to connect to the RJ45 jack installed on site in the back box (e.g. keystone module, field-assembly).

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

The ComTerminal IP offers maximum ease of operation thanks to operation via a full-colour 3.5" touch display and separate sensor buttons for presence registration, call triggering and alarm triggering.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Operating front made of real glass with integrated touch display, sensor buttons and indicators for simple and intuitive operation
- High-quality 3.5" touch display, illuminated, for operation and display of calls and information messages
- Simple operation thanks to logically arranged control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location and reassurance light, configurable
- Green presence button for staff 1 with reminder light
- Yellow presence button for staff 2 with reminder light
- Excellent voice quality through VoIP technology
- High-quality speakers and sensitive microphone
- Integrated configuration menu for selecting room functions and setting system parameters
- Integrated function monitoring with status indication
- Device language selectable by configuration
- Moisture-protected housing
- Closed, smooth surface, easy to clean and disinfect
- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- IP network of the nurse call system

- RAN room bus for connection of further operating elements and signalling devices
- Identification for maximum 6 beds

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the operating front:	Real glass
Housing colour:	White
Power supply:	PoE+ (30 W per port on the switch)
Max. current consumption at 24 V DC ^a :	280 mA
Current available for room peripherals at 24 V DC ^a :	615 mA

^aThe terminal internally converts PoE+ into 24 V DC .

Article no.	Product name	Note
76 0510 20	ComTerminal IP, PoE	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

ComTerminal IP, 24V

76 0510 10



General Description

Universal communication terminal with VoIP technology. Intended for use in patient rooms, staff rooms and function rooms.

Equipped as standard with all control elements required for communication between patients and staff.

The operating front made of real glass meets the highest demands in terms of cleaning, operation and design.

The ComTerminal IP offers maximum ease of operation thanks to operation via a full-colour 3.5" touch display and separate sensor buttons for presence registration, call triggering and alarm triggering.

The ComTerminal IP, 24V controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the IP network of the nurse call system, the RAN room bus and the 24 V DC power supply cable.

All connections are made via an integrated connection panel. An RJ45 jack is used to connect the IP network. A flexible patch cable supplied serves to connect to the RJ45 jack installed on site in the back box (e.g. keystone module, field-assembly).

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Operating front made of real glass with integrated touch display, sensor buttons and indicators for simple and intuitive operation
- High-quality 3.5" touch display, illuminated, for operation and display of calls and information messages
- Simple operation thanks to logically arranged control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location and reassurance light, configurable
- Green presence button for staff 1 with reminder light
- Yellow presence button for staff 2 with reminder light
- Excellent voice quality through VoIP technology
- High-quality speakers and sensitive microphone
- Integrated configuration menu for selecting room functions and setting system parameters
- Integrated function monitoring with status indication
- Device language selectable by configuration
- Moisture-protected housing
- Closed, smooth surface, easy to clean and disinfect
- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- IP network of the nurse call system
- 24 V DC power supply
- RAN room bus for connection of further operating elements and signalling devices
- Identification for maximum 6 beds

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the operating front:	Real glass
Housing colour:	White
Power supply:	24 V DC
Quiescent current consumption:	132 mA

Article no.	Product name	Note
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76 0510 10	ComTerminal IP, 24V	
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Necessary accessories:

17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
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17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"
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ComTerminal Flamenco

77 0510 00



General Description

Universal communication terminal with duplex speech facility. Intended for use in patient rooms, staff rooms and function rooms.

Equipped as standard with all control elements required for communication between patients and staff.

The operating front made of real glass meets the highest demands in terms of cleaning, operation and design.

The integrated user guidance provides an easy-to-use and flexible user interface. Complemented by intuitive menu navigation and a backlit display, the ComTerminal Flamenco offers maximum ease of use.

The ComTerminal Flamenco controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the OSYnet group bus, the RAN room bus and the 24 V DC power supply. All connections are made via an integrated connection panel.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Control panel made of real glass with integrated sensor buttons and display elements for easy and intuitive operation
- High-quality graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Simple operation thanks to logically arranged control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location and reassurance light, configurable
- Green presence button for staff 1 with reminder light
- Yellow presence button for staff 2 with reminder light
- 4 function keys with context-sensitive function assignment
- Excellent voice quality through digital speech processing using DSP technology
- High-quality speakers and sensitive microphone
- Integrated configuration menu for selecting room functions and setting system parameters
- Integrated function monitoring with status indication
- Device language selectable by configuration
- Permanent power failure protection for all data
- Moisture-protected housing
- Closed, smooth surface, easy to clean and disinfect

- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- OSYnet group bus
- 24 V DC power supply
- RAN room bus for connection of further operating elements and signalling devices
- Identification for maximum 6 beds

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the operating front:	Real glass
Housing colour:	White
Power supply:	24 V DC
Quiescent current consumption:	115 mA
Max. current consumption:	approx. 145 mA

Article no.	Product name	Note
77 0510 00	ComTerminal Flamenco	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

ComTerminal Flamenco, desktop installation

77 0511 00



General Description

Communication terminal with duplex speech facility for desktop installation. Designed for use in doctor's rooms.

Equipped as standard with all control elements required for communication between patients and staff.

The operating front made of real glass meets the highest demands in terms of cleaning, operation and design.

The integrated user guidance provides an easy-to-use and flexible user interface. Complemented by intuitive menu navigation and a backlit display, the ComTerminal Flamenco offers maximum ease of use.

The ComTerminal Flamenco controls and monitors all room functions according to the German standard DIN VDE 0834.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Control panel made of real glass with integrated sensor buttons and display elements for easy and intuitive operation
- High-quality graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Desk installation in console form
- 2.5 m connection cable with strain relief
- Connection to the OSYnet group bus via Connection socket ComStation
- Simple operation thanks to logically arranged control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location and reassurance light, configurable
- Green presence button for staff 1 with reminder light
- Yellow presence button for staff 2 with reminder light
- 4 function keys with context-sensitive function assignment
- Excellent voice quality through digital speech processing using DSP technology
- High-quality speakers and sensitive microphone
- Integrated configuration menu for selecting room functions and setting system parameters
- Integrated function monitoring with status indication
- Device language selectable by configuration
- Permanent power failure protection for all data
- Moisture-protected housing
- Closed, smooth surface, easy to clean and disinfect

Interfaces

- OSYnet group bus
- 24 V DC power supply
- RAN room bus for connection of further operating elements and signalling devices
- Identification for maximum 6 beds

Technical data

Dimensions (HxWxD): 30 – 120 x 110 x 240 mm
Housing material: ABS
Material of the operating front: Real glass
Table base material: Plexiglass

Housing colour: White
Table base colour: Transparent
Power supply: 24 V DC
Quiescent current consumption: 115 mA
Max. current consumption: approx. 145 mA

Article no.	Product name	Note
77 0511 00	ComTerminal Flamenco, desktop installation	
Necessary accessories:		
77 0452 30 F	Connection socket ComStation	see separate data sheet

ConnectionTerminal IP, PoE, 2xMOPP

76 0550 00



General Description

ConnectionTerminal IP with VoIP technology, intended for use in patient rooms, staff rooms and function rooms.

The ConnectionTerminal IP without operating elements is suitable for installation outside of arm's reach.

The ConnectionTerminal IP, PoE, 2xMOPP controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the IP network of the nurse call system (including PoE+) and the RAN room bus.

All connections are made via an integrated connection panel. An RJ45 jack is used to connect the IP network. A flexible patch cable supplied serves to connect to the RJ45 jack installed on site in the back box (e.g. keystone module, field-assembly).

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

The devices are configured via the IP network using the SystemOrganizer configuration software.

Intended for nurse call systems with local isolation according to DIN VDE 0834.

Specification

- Installation outside of arm's reach.
- Excellent voice quality through VoIP technology for discreet speech at the bedside
- Speech per bed
- Integrated function monitoring
- Permanent power failure protection for all data and operating functions
- Power supply via PoE+
- Moisture-protected housing
- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- IP network of the nurse call system
- The Ethernet port is internally equipped with a separation point with 2 x MOPP according to DIN EN 60601-1 (data and power supply)
- RAN room bus for connection of the required operating elements and signalling devices
- Identification for maximum 6 beds

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the front:	Polyester
Housing colour:	White
Power supply:	PoE+ (30 W per port on the switch)
Max. current consumption at 24 V DC ^a :	95 mA
Current available for room peripherals at 24 V DC ^a :	800 mA

^aThe terminal internally converts PoE+ into 24 V DC.

Article no.	Product name	Note
76 0550 00	ConnectionTerminal IP, PoE, 2xMOPP	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

ConnectionTerminal IP, PoE

76 0550 20



General Description

ConnectionTerminal IP with VoIP technology, intended for use in patient rooms, staff rooms and function rooms.

The ConnectionTerminal IP without operating elements is suitable for installation outside of arm's reach.

The ConnectionTerminal IP, PoE controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the IP network of the nurse call system (including PoE+) and the RAN room bus.

All connections are made via an integrated connection panel. An RJ45 jack is used to connect the IP network. A flexible patch cable supplied serves to connect to the RJ45 jack installed on site in the back box (e.g. keystone module, field-assembly).

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

The devices are configured via the IP network using the SystemOrganizer configuration software.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Installation outside of arm's reach.
- Excellent voice quality through VoIP technology for discreet speech at the bedside
- Speech per bed
- Integrated function monitoring
- Permanent power failure protection for all data and operating functions
- Power supply via PoE+
- Moisture-protected housing
- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- IP network of the nurse call system
- RAN room bus for connection of the required operating elements and signalling devices
- Identification for maximum 6 beds

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the front:	Polyester
Housing colour:	White
Power supply:	PoE+ (30 W per port on the switch)
Max. current consumption at 24 V DC ^a :	95 mA
Current available for room peripherals at 24 V DC ^a :	800 mA

^aThe terminal internally converts PoE+ into 24 V DC .

Article no.	Product name	Note
76 0550 20	ConnectionTerminal IP, PoE	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

ConnectionTerminal IP, 24V

76 0550 10



General Description

ConnectionTerminal IP with VoIP technology, intended for use in patient rooms, staff rooms and function rooms.

The ConnectionTerminal IP without operating elements is suitable for installation outside of arm's reach.

The ConnectionTerminal IP, 24V controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the IP network of the nurse call system, the RAN room bus and the 24 V DC power supply.

All connections are made via an integrated connection panel. An RJ45 jack is used to connect the IP network. A flexible patch cable supplied serves to connect to the RJ45 jack installed on site in the back box (e.g. keystone module, field-assembly).

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

The devices are configured via the IP network using the SystemOrganizer configuration software.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Installation outside of arm's reach.
- Excellent voice quality through VoIP technology for discreet speech at the bedside
- Speech per bed
- Integrated function monitoring
- Permanent power failure protection for all data and operating functions
- Power supply via the 24 V DC supply of the nurse call system
- Moisture-protected housing
- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- IP network of the nurse call system
- RAN room bus for connection of the required operating elements and signalling devices
- Identification for maximum 6 beds

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the front:	Polyester
Housing colour:	White
Power supply:	24 V DC
Quiescent current consumption:	95 mA

Article no.	Product name	Note
76 0550 10	ConnectionTerminal IP, 24V	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

RoomTerminal Flamenco

77 0520 00



General Description

Room terminal designed for universal use in patient rooms, staff rooms and general function rooms, without speech communication.

Standard equipment includes all control elements for operating the nurse call system.

The integrated user guidance provides an easy-to-use and flexible user interface. Complemented by intuitive menu navigation and a backlit display, the RoomTerminal Flamenco offers maximum ease of use.

The RoomTerminal Flamenco controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the OSYnet group bus, the RAN room bus and the 24 V DC power supply. All connections are made via an integrated connection panel.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Closed control panel as a membrane keyboard with integrated indicators for easy and intuitive operation
- High-quality graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Simple operation thanks to logically arranged control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location and reassurance light
- Green presence button for staff 1 with reminder light
- Yellow presence button for staff 2 with reminder light
- 4 function keys with context-sensitive function assignment
- Attention tone for announcements
- Integrated configuration menu for selecting room functions and setting system parameters
- Integrated function monitoring with status indication
- Plug-and-play technology for easy handling and minimal downtime in the event of faults
- Device language selectable by configuration
- Permanent power failure protection for all data
- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- OSYnet group bus
- 24 V DC power supply
- RAN room bus for connection of further operating elements and signalling devices

- Identification for maximum 6 beds
- Same peripherals for systems with and without speech
- Possibility of upgrading to a system with speech by replacing the room terminal and appropriate installation preparation

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the operating front:	Polyester
Material of the key caps:	Polyurethane (PU)
Display material:	Cast PMMA
Housing colour:	White
Power supply:	24 V DC
Quiescent current consumption:	38 mA
Maximum current consumption:	approx. 78 mA

Article no.	Product name	Note
77 0520 00	RoomTerminal Flamenco	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

RoomTerminal Flamenco, desktop installation

77 0521 00



General Description

Room terminal for desktop installation. Designed for use in doctor's rooms, without speech communication.

Standard equipment includes all control elements for operating the nurse call system.

The integrated user guidance provides an easy-to-use and flexible user interface. Complemented by intuitive menu navigation and a backlit display, the RoomTerminal Flamenco offers maximum ease of use.

The RoomTerminal Flamenco controls and monitors all room functions according to the German standard DIN VDE 0834.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Closed control panel as a membrane keyboard with integrated indicators for easy and intuitive operation

- High-quality graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Desk installation in console form
- Connection to the OSYnet group bus via Connection socket ComStation
- Simple operation thanks to logically arranged control elements with international symbols
- Red call button with symbol, location light and reassurance light
- Blue cardiac alarm button (code blue) with symbol, location and reassurance light
- Green presence button for staff 1 with reminder light
- Yellow presence button for staff 2 with reminder light
- 4 function keys with context-sensitive function assignment
- Attention tone for announcements
- Integrated configuration menu for selecting room functions and setting system parameters
- Integrated function monitoring with status indication
- Device language selectable by configuration
- Permanent power failure protection for all data

Interfaces

- OSYnet group bus
- 24 V DC power supply
- RAN room bus for connection of further operating elements and signalling devices
- Identification for maximum 6 beds
- Same peripherals for systems with and without speech
- Possibility of upgrading to a system with speech by replacing the room terminal and appropriate installation preparation

Technical data

Dimensions (HxWxD):	30 – 120 x 110 x 240 mm	Table base material:	Plexiglass
Housing material:	ABS	Housing colour:	White
Material of the operating front:	Polyester	Table base colour:	Transparent
Material of the key caps:	Polyurethane (PU)	Power supply:	24 V DC
Display material:	Cast PMMA	Quiescent current consumption:	38 mA
		Maximum current consumption:	approx. 78 mA

Article no.	Product name	Note
77 0521 00	RoomTerminal Flamenco, desktop installation	
Necessary accessories:		
77 0452 30 F	Connection socket ComStation	see separate data sheet

ControlTerminal Flamenco

77 0550 00



General Description

ControlTerminal for universal use for patient rooms, staff rooms and function rooms, without speech communication. The ControlTerminal contains a room lamp and is installed in the corridor instead of a room lamp.

Designed as standard for installation in a 2-gang back box.

For mounting, an additional installation kit is required, article no. 77 0960 00, (not included in delivery). The necessary parameters are set using a software tool, the ControlTerminal ConfigSet, article no. 77 0920 00 (not included).

The ControlTerminal controls and monitors all room functions in accordance with the German standard DIN VDE 0834. The integrated interfaces allow connection to the OSYnet group bus, the RAN room bus and the 24 V DC power supply.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Intended for nurse call systems with system isolation in accordance with DIN VDE 0834.

Specification

- Integrated room lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display.
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change
- Integrated function monitoring with status indication
- Permanent power failure protection for all data
- Integrated connection field
- Surface mounting over a 2-gang back box

Interfaces

- OSYnet group bus
- 24 V DC power supply
- RAN room bus for connection of further operating elements and signalling devices
- Identification for maximum 6 beds

Light sections

- LED red: calls
- LED green: presence of staff 1
- LED yellow: presence of staff 2
- LED white: WC call

To be ordered separately

- ControlTerminal installation kit (article no. 77 0960 00), required for each ControlTerminal.
- ControlTerminal ConfigSet (77 0920 00) required for the configuration of several ControlTerminals

Technical data

Dimensions (HxWxD):	110 x 150 x 40 mm	Housing colour:	Silver coloured
Housing material:	ABS	Power supply:	24 V DC
Light dome material:	Styrene-acrylonitrile	Quiescent current consumption:	42 mA
		Additional current consumption per illuminated light section:	10 mA

Article no.	Product name	Note
77 0550 00	ControlTerminal Flamenco	
Necessary accessories:		
77 0960 00	ControlTerminal installation kit	see appendix "Accessories"
77 0920 00	ControlTerminal ConfigSet	see appendix "Accessories"
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

2. Connection sockets

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Connection socket combi, bedhead unit MAG

70 0437 00



General Description

Combined connection socket including two different sockets: Magnetic socket for a patient operating device (ePat® lite or Patient handset) or a call device (e.g. pear push switch) with magnetic plug. 8-pin socket for a call device (e.g. pear push switch) with 8-pin mini-DIN plug.

One call button for patient and staff use complete with integrated reassurance light. The reassurance light illuminates upon activation of a call.

Intended for the following functions: transmission of calls, control of two light sources, TV transmission, transmission of entertainment programmes, and blinds control.

Designed for installation in medical supply units.

Specification

- 2 different sockets for use either individually or simultaneously
- Magnetic socket for connection of a patient operating device (ePat® lite or Patient handset) or a call device (e.g. pear push switch) with magnetic plug
- 8-pin socket for connection of a call device (e.g. pear push switch) with 8-pin mini-DIN plug
- Integrated plug disconnected message
- Red call button with symbol, with reassurance light and integrated location light, red LED
- Bed identification
- Jumper for setting the bed number
- Set to channel 3 (bed 3) in the factory setting

- The two outputs for light control provide a 24 V signal for the length of time the light switch on the ePat® lite, patient handset, pear push switch incl. call and light switch or pear push switch incl. call and 2 light switches remains pressed. The outputs may be loaded with 40 mA.
- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat® lite. Entertainment or blinds control are available with patient handset.
- For blinds control, forwarding of control signals via a RAN interface universal (article no. 70 0848 00, order separately)
- Connection for TV tone
- TV control in combination with RAN interface (article no. 77 0840 00, order separately).
- TV tone/Entertainment input: 25 Veff
- 40-pin connector for internal connection within the medical supply unit
- Connection via a 40 pin flat cable
- 4-pole connector for reading light control

Interfaces

- RAN room bus with speech connection

Technical data

Dimensions (HxWxD):	81 x 131 x 40 mm
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	39 mA
Max. current consumption (without connected devices) :	51 mA

Article no.	Product name	Note
70 0437 00	Connection socket combi, bedhead unit MAG	
Necessary accessories:		
50 0308 00	Light relay connection cable for reading light	

Connection socket combi, bedhead unit

70 0435 00



General Description

Combined connection socket including two different sockets: 13-pin socket for a patient operating device (ePat® lite or Patient handset) with 13-pin DIN plug. 8-pin socket for a call device (e.g. pear push switch) with 8-pin mini-DIN plug.

Intended for the following functions: transmission of calls, control of two light sources, TV transmission, transmission of entertainment programmes, and blinds control.

Designed for installation in medical supply units.

Specification

- 2 different sockets for use either individually or simultaneously
- 13-pin socket for connection of a patient operating device (ePat® lite or Patient handset) with 13-pin DIN plug
- 8-pin socket for connection of a call device (e.g. pear push switch) with 8-pin mini-DIN plug
- Integrated plug disconnected message
- Bed identification
- Jumper for setting the bed number
- Set to channel 3 (bed 3) in the factory setting
- The two outputs for light control provide a 24 V signal for the length of time the light switch on

the ePat® lite, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 40 mA.

- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat® lite. Entertainment or blinds control are available with patient handset.
- For blinds control, forwarding of control signals via a RAN interface universal (article no. 70 0848 00, order separately)
- Connection for TV tone
- TV control in combination with RAN interface (article no. 77 0840 00, order separately).
- TV tone/Entertainment input: 25 Veff
- 40-pin connector for internal connection within the medical supply unit
- Connection via a 40 pin flat cable
- 4-pole connector for reading light control

Interfaces

- RAN room bus with speech connection

Technical data

Dimensions (HxWxD):	81 x 131 x 37 mm
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	30 mA
Max. current consumption (without connected devices) :	30 mA

Article no.	Product name	Note
70 0435 00	Connection socket combi, bedhead unit	

Article no.	Product name	Note
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Product variants:

70 0435 50	Connection socket combi, bedhead unit, TVL	<ul style="list-style-type: none"> • Entertainment input: 25 Veff • TV tone input: 5 Veff
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Necessary accessories:

50 0308 00	Light relay connection cable for reading light	
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Connection socket combi

70 0425 00



General Description

Combined connection socket including two different sockets: 13-pin socket for a patient operating device (ePat® lite or Patient handset) with 13-pin DIN plug. 8-pin socket for a call device (e.g. pear push switch) with 8-pin mini-DIN plug.

Intended for the following functions: transmission of calls, control of two light sources, TV transmission, transmission of entertainment programmes, and blinds control.

Suitable for 2-gang back boxes.

Intended for wall mounting.

Specification

- 2 different sockets for use either individually or simultaneously
- 13-pin socket for connection of a patient operating device (ePat® lite or Patient handset) with 13-pin DIN plug
- 8-pin socket for connection of a call device (e.g. pear push switch) with 8-pin mini-DIN plug
- Integrated plug disconnected message
- Bed identification
- DIP switch for setting the bed number
- Set to channel 3 (bed 3) in the factory setting
- The two outputs for light control provide a 24 V signal for the length of time the light switch on

the ePat® lite, patient handset or pear push switch incl. call and light switch remains pressed. The outputs may be loaded with 40 mA.

- The dimming feature requires suitable dimmable ballasts, e.g. with DALI interface.
- Connection possibility for 5 entertainment programmes
- Connection possibility for blinds control
- Entertainment and blinds control are available with ePat® lite. Entertainment or blinds control are available with patient handset.
- For blinds control, forwarding of control signals via a RAN interface universal (article no. 70 0848 00, order separately)
- Connection for TV tone
- TV control in combination with RAN interface (article no. 77 0840 00, order separately).
- TV tone/Entertainment input: 25 Veff
- Plug-in terminals, usable conductor cross-sections: 0.55 - 1 mm Ø.

Interfaces

- RAN room bus with speech connection

Technical data

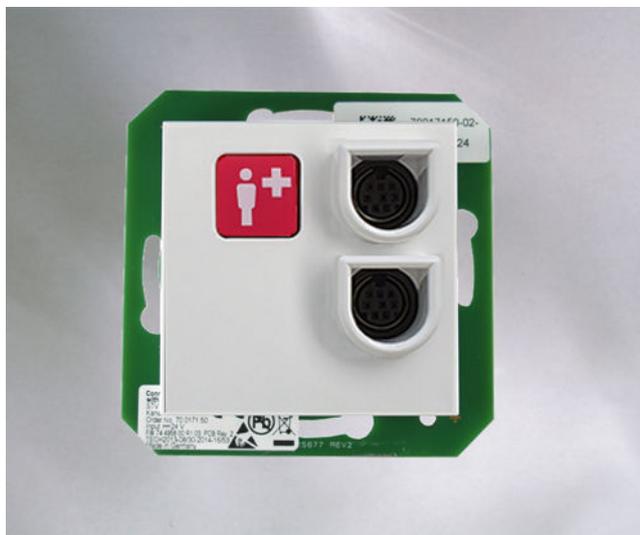
Dimensions (HxWxD):	90 x 181 x 10 mm
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	30 mA
Max. current consumption (without connected devices) :	30 mA

Article no.	Product name	Note
70 0425 00	Connection socket combi	

Article no.	Product name	Note
Product variants:		
70 0425 50	Connection socket combi, TVL	<ul style="list-style-type: none"> • Entertainment input: 25 Veff • TV tone input: 5 Veff
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

Connection socket with call switch, bedhead unit

70 0171 50



General Description

Connection socket including two identical 8-pin sockets for call devices (e.g. pear push switch) with 8-pin mini-DIN plug.

One call button for patient and staff use complete with integrated reassurance light. The reassurance light illuminates upon activation of a call.

Designed for mounting in medical supply unit. Backside mounting.

The independent design also visually identifies the connection socket as part of the nurse call system.

Specification

- 2 identical 8-pin sockets for connection of call devices (e.g. pear push switch) with 8-pin mini-DIN plug

- 1 backside connection to an additional call button with location and reassurance light. Normally closed or normally open contact can be set by DIP switch
- Red call button with symbol, with reassurance light and integrated location light, red LED
- Integrated plug disconnected message
- Bed identification
- DIP switch for setting the bed number
- Plug installation for easy mounting
- 2 switching outputs for light switching: 24 V DC, max. 40 mA each
- Integrated electronics with plug connection for the RAN room bus

To be ordered separately: Connector, 5-pole (article no. 00 0211 37)

Technical data

Dimensions (HxWxD):	70.5 x 70.5 x 41 mm
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Material of the call button:	Front: Polycarbonate, Housing: PBT
Power supply:	24 V DC
Quiescent current consumption:	21 mA

Article no.	Product name	Note
70 0171 50	Connection socket with call switch, bedhead unit	
Necessary accessories:		
00 0211 37	Connector, 5-pole	see appendix "Accessories"

Article no.	Product name	Note
Optional accessories:		
50 0308 02	Connection cable e.g. for connection socket with call switch for using the external call input	see appendix "Accessories"
19 9102 40	Button cap white, call button	see appendix "Accessories"
Spare parts:		
19 9202 09	Central plate future linear 1button/2sockets	

Connection socket with call switch

70 0171 60...



70 0171 60 F

General Description

Connection socket including two identical 8-pin sockets for call devices (e.g. pear push switch) with 8-pin mini-DIN plug.

One call button for patient and staff use complete with integrated reassurance light. The reassurance light illuminates upon activation of a call.

Intended for wall mounting.

The independent design visually identifies the connection socket as part of the nurse call system.

Specification

- 2 identical 8-pin sockets for connection of call devices (e.g. pear push switch) with 8-pin mini-DIN plug

- 1 backside connection to an additional call button with location and reassurance light. Normally closed or normally open contact can be set by DIP switch
- Integrated plug disconnected message
- Red call button with symbol, with reassurance light and integrated location light, red LED
- Bed identification
- DIP switch for setting the bed number
- Plug installation for easy mounting
- 2 switching outputs for light switching: 24 V DC, max. 40 mA each
- Integrated electronics with plug connection for the RAN room bus
- Attractive design frame

To be ordered separately: Connector, 5-pole (article no. 00 0211 37)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Material of the call button:	Front: Polycarbonate, Housing: PBT
Power supply:	24 V DC
Quiescent current consumption:	21 mA

Article no.	Product name	Note
70 0171 60 F	Connection socket with call switch	Dimensions (HxWxD): 80 x 80 x 41 mm
70 0171 60 A	Connection socket with call switch	Dimensions (HxWxD): 91 x 91 x 41 mm
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
00 0211 37	Connector, 5-pole	see appendix "Accessories"

Article no.	Product name	Note
Optional accessories:		
50 0308 02	Connection cable e.g. for connection socket with call switch for using the external call input	see appendix "Accessories"
Spare parts:		
19 9202 08	Central plate future linear 1button/2sockets	see appendix "Accessories"
77 0210 56	Intermediate frame Busch-Jaeger future® linear, Busch-axcent®	see appendix "Accessories"

3. Patient operating devices

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ePAT® lite incl. wall bracket

77 0370 00, 77 0370 10



General Description

Combined communication and operating device with duplex speech facility for use at the patient bed as part of a nurse call system in accordance with the German standard DIN VDE 0834.

The detached, illuminated, clearly recognizable call button enables secure call triggering at any time.

Comfort functions are controlled via a touch-sensitive interface. Comfort functions include switching and dimming of two light sources, TV control and sound transmission, entertainment transmission as well as blinds control. The additional service call button makes it possible to request non-nursing services.

The clear arrangement and clear symbols of the operating elements ensure safe operation, especially in emergency situations.

High speech quality for open and discreet speech between patient and nursing staff.

ePAT® lite with magnetic plug, article no. 77 0370 10: Flexible connection cable with magnetic plug for connection to the magnetic socket of Connection socket combi, bedhead unit MAG (70 0437 00).

ePAT® lite with DIN plug, article no. 77 0370 00: Flexible connection cable with 13-pin DIN plug for connection to the 13-pin socket of Connection socket combi (70 0425 00, 70 0424 00, 70 0424 50) or Connection socket combi, bedhead unit (70 0435 00, 70 0434 00, 70 0434 50).

Specification

- Ergonomically shaped housing, particularly suitable for patients with motor impairments
- Intuitive operation through simple, understandable symbols
- Excellent speech quality, high-quality microphone and high-quality loudspeaker
- Loudspeaker volume can be adjusted during speech connection
- Red call button incl. reassurance light and integrated location light
- Light key for reading light with location light
- Light key for room light
- Sound transmission (TV/entertainment) optional
- 2 keys for volume control TV/entertainment
- Key for switching TV on/off, status indicator
- Key for switching entertainment on/off and blinds control mode on, status indicator
- 2 keys for program selection TV/entertainment and lowering and raising the blinds
- Service call key for requesting services (corresponding organisation on the ward or in the hospital required, additional hardware and software components required)
- CLEAN key for locking the touch-sensitive user interface during cleaning
- 1 headphone socket (3.5 mm jack) for connecting a standard headphone (32 Ohm)
- Bracket for holding the ePAT® lite
- Operating surface with antibacterial effect
- Moisture protection for easy cleaning and disinfection (IP54)

System requirements

- TV control in combination with RAN interface, article no. 77 0840 00
- Blinds control in connection with RAN interface universal, article no. 70 0848 00

Scope of supply

- ePat® lite
- Wall bracket for holding the ePAT® lite
- Instructions for use for patients
- Cleaning notes

Technical data

Dimensions (HxWxD):	173 x 65 x 27 mm
Length of flexible connection cable:	2.5 m
Weight including connection cable:	195 g
Housing, call button and mounting bracket material:	ASA/PC
Operating surface material:	ABS with PET coating with antibacterial properties
Connection cable:	Soft PVC
Colour:	White/black
Power supply:	24 V DC
Quiescent current consumption:	40 mA
Max. current consumption, i.e. for entertainment transmission:	up to 100 mA

Article no.	Product name	Note
77 0370 00	ePAT® lite with DIN plug incl. wall bracket	
77 0370 10	ePAT® lite with magnetic plug including wall bracket	
Optional accessories:		
70 0801 00	Headphone	see appendix "Accessories"
77 0382 00	ePat® Clip	see appendix "Accessories"
77 0381 00	Magnetic adapter for connecting an ePAT® lite with magnetic plug to a 13-pin DIN socket	see appendix "Accessories"
Spare parts:		
77 0380 00	ePAT® bracket	see appendix "Accessories"
77 0383 00	ePAT® lite spare parts set connection cable with 13-pin DIN plug, Packing unit = 5 pieces	

Patient handset

74 0747 00



General Description

Combined communication and operating device with duplex speech facility for use at the patient bed as part of a nurse call system in accordance with the German standard DIN VDE 0834.

Detached, illuminated, clearly recognizable call button enables calls to be raised reliably at any time.

Comfort functions are controlled via additional buttons. Comfort functions include switching and dimming of two light sources, TV control and TV sound transmission, entertainment transmission or blinds control.

The clear arrangement and clear symbols of the operating elements ensure safe operation, especially in emergency situations.

High speech quality for open and discreet speech between patient and nursing staff.

Flexible connection cable with 13-pin DIN plug for connection to the 13-pin socket of Connection socket combi (70 0425 00, 70 0424 00, 70 0424 50) or Connection socket combi, bedhead unit (70 0435 00, 70 0434 00, 70 0434 50).

Specification

- Handset with integrated impact and moisture protection
- Ergonomic housing with all-round protective edge
- Clear labelling using simple symbols
- Excellent speech quality, high-quality electret microphone and high-quality loudspeaker
- Automatic adjustment of acoustic volume in relation to the operating mode
- Red call button with reassurance light and integrated location light
- Yellow light key for reading light with location light
- Yellow light key for room light
- Transmission of sound (TV/entertainment) optional
- 2 keys for volume control of entertainment/TV
- 2 keys for TV system control, status indication
- 2 keys for the control of entertainment programmes or blinds control) depending on the installation of the connection socket.
- 1 headphone socket (3.5 mm jack) for connecting a standard headphone (32 Ohm)
- Flexible connection cable with 13-pin DIN plug, cable length approx. 2.5 m
- Moisture protection for easy cleaning and disinfection

System requirements

- TV control in combination with RAN interface, article no. 77 0840 00
- Blinds control in connection with RAN interface universal, article no. 70 0848 00

To be ordered separately: Patient handset bracket (article no. 70 0800 00)

Technical data

Dimensions (HxWxD) without connection cable:

195.5 x 52 x 25 mm

Length of flexible connection cable:

2.5 m

Weight including connection cable:

297 g

Housing material:

ABS

Material of the keys and surrounding protective edge:

Silicone Rubber

Connection cable, plug:

Soft PVC

Housing colour:

Pantone 427 light grey

Power supply:

24 V DC

Quiescent current consumption:

20 mA

Max. current consumption, i.e. for entertainment transmission:

up to 85 mA

Article no.	Product name	Note
74 0747 00	Patient handset	
Necessary accessories:		
70 0800 00	Patient handset bracket	see appendix "Accessories"
Optional accessories:		
70 0801 00	Headphone	see appendix "Accessories"
70 0800 10	Patient handset bed bracket Völker	see appendix "Accessories"
70 0361 00	Equipment and cable clamp	see appendix "Accessories"
74 0812 50	Self-releasing adapter patient handset	see appendix "Accessories"

Pear push switch incl. call and light switch for connection socket 700xxxxx

70 0710 0x



General Description

Moisture-protected call and light switch for easy call activation and switching the reading light.

Integrated reassurance light to indicate a triggered call.

Flexible connection cable with 8-pin mini-DIN plug for connection to the 8-pin socket of Connection socket combi, bedhead unit MAG (70 0437 00), Connection socket combi (70 0425 00), Connection socket combi, bedhead unit (70 0435 00), Connection socket with call switch (70 0171 60 F, 70 0171 60 A) or Connection socket with call switch, bedhead unit (70 0171 50).

Specification

- Ergonomically arranged buttons for easy operation and prevention of false triggering

- Easy cleaning and disinfection thanks to moisture-proof, compact housing
- Red call button with reassurance light and integrated location light, red LED
- Yellow light button for reading light

Technical data

Dimensions (HxWxD) without connection cable:	60 x 55 x 20 mm
Length of flexible connection cable:	
- 70 0710 00:	2 m
- 70 0710 01:	4 m
- 70 0710 02:	6 m
Weight including connection cable:	
- 70 0710 00:	100 g
- 70 0710 01:	170 g
- 70 0710 02:	240 g
Housing material:	ABS
Material of the buttons:	Thermoplastic elastomer
Connection cable, plug:	Soft PVC
Housing colour:	RAL 9018 papyrus white
Power supply:	24 V DC
Quiescent current consumption:	1 mA
Max. current consumption:	8 mA

Article no.	Product name	Note
70 0710 00	Pear push switch incl. call and light switch, 2 m, for connection socket 700xxxxx	
70 0710 01	Pear push switch incl. call and light switch, 4 m, for connection socket 700xxxxx	

Article no.	Product name	Note
70 0710 02	Pear push switch incl. call and light switch, 6 m, for connection socket 700xxxxx	
Optional accessories:		
74 0812 51 A	Self-releasing adapter pear push switch	see appendix "Accessories"
70 0361 00	Equipment and cable clamp	see appendix "Accessories"

Pear push switch incl. 2 call switches for connection socket 700xxxxx

70 0711 0x



- Easy cleaning and disinfection thanks to moisture-proof, compact housing
- 2 red call buttons with reassurance light and integrated location light, red LED

Technical data

Dimensions (HxWxD) without connection cable:	60 x 55 x 20 mm
Length of flexible connection cable:	
- 70 0711 00:	2 m
- 70 0711 01:	4 m
- 70 0711 02:	6 m
Weight including connection cable:	
- 70 0711 00:	100 g
- 70 0711 01:	170 g
- 70 0711 02:	240 g
Housing material:	ABS
Material of the buttons:	Thermoplastic elastomer
Connection cable, plug:	Soft PVC
Housing colour:	RAL 9018 papyrus white
Power supply:	24 V DC
Quiescent current consumption:	1 mA
Max. current consumption:	8 mA

General Description

Moisture-protected call switch for easy call activation.

Integrated reassurance light to indicate a triggered call.

Flexible connection cable with 8-pin mini-DIN plug for connection to the 8-pin socket of Connection socket combi, bedhead unit MAG (70 0437 00), Connection socket combi (70 0425 00), Connection socket combi, bedhead unit (70 0435 00), Connection socket with call switch (70 0171 60 F, 70 0171 60 A) or Connection socket with call switch, bedhead unit (70 0171 50).

Specification

- Ergonomically arranged buttons for easy operation and prevention of false triggering

Article no.	Product name	Note
70 0711 00	Pear push switch incl. 2 call switches, 2 m, for connection socket 700xxxxx	
70 0711 01	Pear push switch incl. 2 call switches, 4 m, for connection socket 700xxxxx	
70 0711 02	Pear push switch incl. 2 call switches, 6 m, for connection socket 700xxxxx	
Optional accessories:		
74 0812 51 A	Self-releasing adapter pear push switch	see appendix "Accessories"
70 0361 00	Equipment and cable clamp	see appendix "Accessories"

Pear push switch for connection sockets 700171x0 , 70043700

70 0712 00



- Red call button with reassurance light and integrated location light
- 3 tactile locating points on the call button
- Yellow light button for reading light
- Yellow light button for room light
- Protected against temporary immersion in water and dustproof (IP67)

Technical data

Dimensions (HxWxD) without connection cable:	70 x 35 x 10 mm
Length of flexible connection cable:	3 m
Weight including connection cable:	150 g
Housing material:	ABS
Material of the buttons:	Hard coated polyester film
Connection cable, plug:	Soft PVC
Housing colour:	White, similar to RAL 9010
Ingress protection code:	IP67
Power supply:	24 V DC
Quiescent current consumption:	1 mA
Max. current consumption:	8 mA

General Description

Moisture-protected call and light switch for easy call activation and switching the reading light and the room light.

Integrated reassurance light to indicate a triggered call.

Flexible connection cable with 8-pin mini-DIN plug for connection to the 8-pin socket of the Connection socket combi, bedhead unit MAG (70 0437 00), Connection socket with call switch (70 0171 60 F, 70 0171 60 A) or Connection socket with call switch, bedhead unit (70 0171 50).

Specification

- Easy cleaning and disinfection through water-protected, closed housing

Article no.	Product name	Note
70 0712 00	Pear push switch for connection sockets 700171x0 , 70043700	
Required connection socket, order separately:		
70 0437 00	Connection socket combi, bedhead unit MAG	see separate data sheet
70 0171 50	Connection socket with call switch, bedhead unit	see separate data sheet
70 0171 60 F	Connection socket with call switch	see separate data sheet
70 0171 60 A	Connection socket with call switch	see separate data sheet

Sound detector for connection socket 700xxxxx

70 0790 01



General Description

The sound detector registers the noises produced by the patient as call and then initiates a call in the nurse call system. Furthermore a call can be initiated by pressing the red call button on the unit.

Several operation indicators and adjustment possibilities.

Flexible connection cable with 8-pin mini-DIN plug for connection to the 8-pin socket of Connection socket combi, bedhead unit MAG (70 0437 00), Connection socket combi (70 0425 00), Connection socket combi, bedhead unit (70 0435 00), Connection socket with call switch (70 0171 60 F, 70 0171 60 A) or Connection socket with call switch, bedhead unit (70 0171 50).

Specification

- Microphone sensitivity adjustable
- Noise filtering adjustable
- LED call indicator (orange)
- LED microphone status (green)
- Call button (red) for manual triggering of calls
- Disconnection monitoring
- Microphone ON/OFF switch (grey)
- Microphone

Technical data

Dimensions (ØxHxH) without connection cable:	110 x 20 x 50 mm
Length of flexible connection cable:	2 m
Weight including connection cable:	179 g
Microphone sensitivity:	-38 +/- 3dB
Ingress protection code:	IP30
Power supply:	24 V DC
Quiescent current consumption:	30 mA

Article no.	Product name	Note
70 0790 01	Sound detector for connection socket 700xxxxx	

Sensor mat for connection socket 700xxxxx

Z 00 8002 02



General Description

Large mat for triggering a call by stepping on or pressing the mat.

Suitable for use in hospitals, care homes or similar establishments.

The mat is placed in front of the bed, for example. If the patient leaves the bed or falls out of bed onto the mat, a call is triggered in the nurse call system.

Flexible connection cable with 8-pin mini-DIN plug for connection to the 8-pin socket of Connection socket combi, bedhead unit MAG (70 0437 00), Connection socket combi (70 0425 00), Connection socket combi, bedhead unit (70 0435 00), Connection socket with call switch (70 0171 60 F, 70 0171 60 A) or Connection socket with call switch, bedhead unit (70 0171 50).

Specification

- Large sensor area
- Disconnection monitoring
- Splash-proof
- Soft PVC, easy to clean

Technical data

Dimensions (WxD):	1200 x 500 mm
Length of flexible connection cable:	4 m
Weight:	approx. 1500 g
Stepping area thickness:	4 mm
Material:	Soft PVC
Colour:	Ivory-coloured
Power supply:	24 V DC
Quiescent current consumption:	10 mA

Article no.	Product name	Note
Z 00 8002 02	Sensor mat for connection socket 700xxxxx	

Large-surface pneumatic switch for connection socket 700xxxxx

Z 00 8201 13



General Description

Large-surface pneumatic switch for call activation. Only a very slight actuation force is required in order to activate the switch. It is therefore very well suited when there are activation problems due to illness.

Flexible connection cable with 8-pin mini-DIN plug for connection to the 8-pin socket of Connection socket combi, bedhead unit MAG (70 0437 00), Connection socket combi (70 0425 00), Connection socket combi, bedhead unit (70 0435 00), Connection socket with call switch (70 0171 60 F, 70 0171 60 A) or Connection socket with call switch, bedhead unit (70 0171 50).

Specification

- Red trigger surface, round, Ø 90 mm
- Optical reassurance indicator that lights up all around as well as vibration when the button is pressed (vibration function can be disabled)
- Disconnection monitoring
- Ingress protection code: IP44 (do not use in wet cells)

Technical data

Dimensions (HxØ):	40 x 110 mm
Length of flexible connection cable:	2 m
Weight including connection cable:	250 g
Diameter of the push surface:	90 mm
Bellows material:	TPE/TPR
Colour:	Red
Power supply:	24 V DC
Quiescent current consumption:	16 mA
Ambient temperature:	-10 °C to +55 °C

Article no.	Product name	Note
Z 00 8201 13	Large-surface pneumatic switch for connection socket 700xxxxx	
Optional accessories:		
Z 00 8201 16	Wall bracket for large-surface pneumatic switch	see appendix "Accessories"

Breathing sensor set for connection socket 700xxxxx

Z 00 8201 40



General Description

Contact-less call sensor for call initiation by breath. The breathing sensor enables persons with very severe motor impairments to trigger calls by means of breath / blowing sounds. Even the slightest breathing triggers a call.

Inadvertent triggering, e.g. by ambient noise, is largely suppressed by an intelligent sound evaluation system.

Integrated operating indicators show the current device status.

Flexible connection cable with 8-pin mini-DIN plug for connection to the 8-pin socket of Connection socket combi, bedhead unit MAG (70 0437 00), Connection socket combi (70 0425 00), Connection socket combi, bedhead unit (70 0435 00), Connection socket with call switch (70 0171 60 F, 70 0171 60 A) or Connection socket with call switch, bedhead unit (70 0171 50).

Specification

- Sensor unit for call initiation via breathing or blowing noises
- Universal clamp bracket with 60 cm flexible gooseneck
- Integrated status indication on the sensor head
- Control module with status indicators and further setting options
- Disconnection monitoring
- Approx. 2 m flexible connection cable with plug for connection to a connection socket in the socket for pear push switch

Technical data

Dimensions of sensor unit (HxWxD):	80 x 130 x 30 mm
Length of flexible connection cable:	2 m
Weight:	approx. 950 g
Settings:	ambient sound, brightness, location light
Status indication:	Operation, call, blocking
Mounting:	Clamp bracket
Ingress protection code:	IP30
Power supply:	24 V DC
Quiescent current consumption:	200 mA

Article no.	Product name	Note
Z 00 8201 40	Breathing sensor set for connection socket 700xxxxx	
Spare parts:		
Z 00 8201 90	Replacement membrane set of 10 for breathing sensor set Z00820140/Z00820150	
Z 00 8201 91	Replacement ball head for breathing sensor set Z00820140/Z00820150	

4. Switches

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Call switch

77 0211 00...



77 0211 00 F

General Description

Switch with two call buttons with reassurance light for triggering calls. The reassurance lights are on with a bright light, when a call was triggered. While staff presence is switched on in the room, an emergency call is triggered.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- 2 red call buttons with reassurance light and integrated location light, red LED

- Short acoustic signal as feedback when a call is triggered
- A channel number can be set on the switch to build functional units in the room.
- Reprogrammable to call switch/WC
- Easy plug-and-play installation
- Clear identification by symbol
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

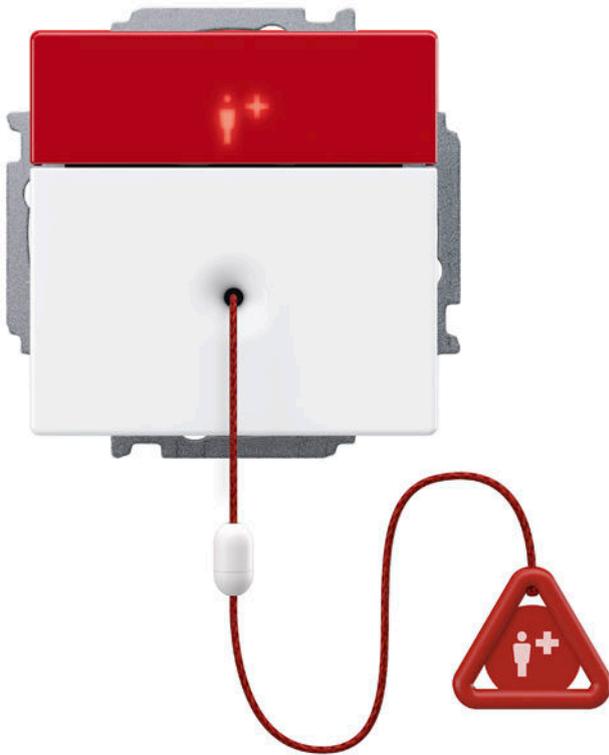
Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 25 mA

Article no.	Product name	Note
77 0211 00 F	Call switch	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0211 00 A	Call switch	Dimensions (HxWxD): 91 x 91 x 36 mm
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Pull cord call switch insert without frame

29 0707 20F



General Description

Switch insert with a pull cord at the end of which a call handle is attached, for triggering calls or WC calls by pull actuation. Another call option is a red call button with reassurance light. For further reassurance, an integrated beeper emits an acoustic signal when the call is triggered.

The reassurance light illuminates brightly as soon as a call is triggered. If presence in the room is switched on when a call is triggered, an emergency call is triggered

Particularly suitable for raising calls in the shower or at the toilet.

Cancel function for WC calls optionally configurable.

The independent design visually identifies the switch as part of the nurse call system.

Suitable for wall and ceiling mounting.

Specification

- 2.50 m long pull cord incl. call handle with symbol and safety release
- Red call button with reassurance light and integrated location light
- Short acoustic signal as feedback when a call is triggered
- Safety release in the pull cord opens when the pulling force exceeds a limit value of approx. 25 Nm (strangulation protection). The safety release is closed again by simply plugging it together.
- Usable for call (factory setting) or WC call
- The pull cord switch can be configured in such a way that WC calls can not only be triggered but also be cancelled during activated staff presence by pulling the pull cord. To comply with the German standard DIN VDE 0834, an additional Cancel switch/WC must be installed.
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Clear identification by symbol
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Wall mounting or ceiling mounting in 1-gang back box

Scope of supply

- Pull cord switch insert
- Mounting plate
- Terminal block, 5-pole, black/yellow/red/light grey/dark grey, plugged in
- installation instructions

To be ordered separately: Frame F (article no. 77 0210 53) or frame A (article no. 77 0210 51).

Technical data

Dimensions (HxW):	71 x 71 mm
Installation depth:	24 mm
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Pull cord material:	Polyamide
Call handle material:	ABS

Ingress protection code:	IP22
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 25 mA
Ambient temperature:	+5 °C to +40 °C
Relative humidity:	0% to 95%

Article no.	Product name	Note
29 0707 20F	Pull cord call switch insert without frame	
Frame, order separately:		
77 0210 53	Frame F, 1-gang	see appendix "Accessories"
77 0210 51	Frame A, 1-gang	see appendix "Accessories"
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts:		
19 9500 19	Terminal block, 5-pole, bk/ye/rd/gy/gy	
77 9510 06	Pull cord incl. call handle, safety release	
77 9510 11	Pull cord incl. call handle, 2.5 m, incl. safety releases every 10 cm	

Pneumatic call switch

77 0216 00...



77 0216 00 F

General Description

Switch with an air hose and a red rubber ball for triggering calls by squeezing the elastic ball. Two reassurance lights are on with a bright light, when a call was triggered. In addition, a short acoustic signal sounds when a call is triggered. While staff presence is switched on in the room, an emergency call is triggered.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- 2 m air hose with red ball made of soft PVC
- 2 red LEDs with two functions as reassurance and location light
- Short acoustic signal as feedback when a call is triggered
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Material of the elastic ball:	Soft PVC
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 25 mA

Article no.	Product name	Note
77 0216 00 F	Pneumatic call switch	Dimensions (HxWxD): 80 x 80 x 56 mm
77 0215 00 A	Pneumatic call switch	Dimensions (HxWxD): 91 x 91 x 56 mm
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"

Article no.	Product name	Note
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Call switch with privacy switch

77 0218 00...



77 0218 00 F

General Description

Switch with call button with reassurance light for triggering calls. The reassurance light is on with a bright light, when a call was triggered. While staff presence is switched on in the room, an emergency call is triggered.

The switch also has a privacy button for switching on and off the privacy function in the room.

Optionally activatable function: An integrated beeper signals forwarded calls when staff presence is switched on in the room.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- Red call button with symbol, with reassurance light and integrated location light, red LED

- Short acoustic signal as feedback when a call is triggered
- Grey privacy button for switching on and off the privacy in the room, even if staff presence is switched on in the room. The white LED is on, if the privacy was switched on with the privacy button.
- A channel number can be set on the switch to build functional units for call triggering in the room.
- Easy plug-and-play installation
- Clear identification by symbol on the call button
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 25 mA

Article no.	Product name	Note
77 0218 00 F	Call switch with privacy switch	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0218 00 A	Call switch with privacy switch	Dimensions (HxWxD): 91 x 91 x 36 mm

Article no.	Product name	Note
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Cardiac alarm switch

77 0214 00...



77 0214 00 F

General Description

Switch with two alarm buttons with reassurance light for triggering cardiac alarms, while the staff presence is switched on in the room. The reassurance are on with a bright light, when a cardiac alarm was triggered.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- 2 blue alarm buttons with reassurance light and integrated location light, red LED

- Short acoustic signal as feedback when cardiac alarm is triggered
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Clear identification by symbol
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 25 mA

Article no.	Product name	Note
77 0211 00 F	Cardiac alarm switch	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0211 00 A	Cardiac alarm switch	Dimensions (HxWxD): 91 x 91 x 36 mm
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Staff presence switch

77 0212 00...



77 0212 00 F

General Description

Switch with two presence buttons with reminder light for switching on and off the staff presence for two different staff groups.

Optionally activatable function: An integrated beeper signals forwarded calls when staff presence is switched on in the room.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- Green presence button for staff 1 with reminder light, green LED

- Yellow presence button for staff 2 with reminder light, yellow LED
- When presence is switched on: acoustic signalling of forwarded calls and acoustic signalling before announcements (function inactive in the factory setting)
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 50 mA

Article no.	Product name	Note
77 0212 00 F	Staff presence switch	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0212 00 A	Staff presence switch	Dimensions (HxWxD): 91 x 91 x 36 mm

Necessary accessories:

17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Staff presence combination with call tone

77 0219 00...



77 0219 00 F

General Description

Switch with one presence button with reminder light for switching on and off the staff presence.

Furthermore the switch is equipped with a call button with reassurance light for riggering calls. The reassurance light is on with a bright light, when a call was triggered. While staff presence is switched on in the room, an emergency call is triggered.

An integrated beeper for acoustic signalling of forwarded calls, while staff presence is switched on in the room.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- Green presence button for staff 1 with reminder light, green LED

- Red call button with symbol, with reassurance light and integrated location light, red LED
- Short acoustic signal as feedback when a call is triggered
- When presence is switched on: acoustic signalling of forwarded calls and acoustic signalling before announcements
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Clear identification by symbol on the call button
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 50 mA

Article no.	Product name	Note
77 0219 00 F	Staff presence combination with call tone	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0219 00 A	Staff presence combination with call tone	Dimensions (HxWxD): 91 x 91 x 36 mm

Article no.	Product name	Note
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Call switch/WC

77 0211 01...



77 0211 01 F

General Description

Switch with two call buttons with reassurance light for triggering WC calls. The reassurance lights are on with a bright light, when a call was triggered. While staff presence is switched on in the room, a WC emergency call is triggered.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- 2 red WC call buttons with reassurance light and integrated location light, red LED

- Short acoustic signal as feedback when a call is triggered
- A channel number can be set on the switch to build functional units in the room.
- Reprogrammable to call switch for normal call
- Easy plug-and-play installation
- Clear identification by symbol
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 25 mA

Article no.	Product name	Note
77 0211 01 F	Call switch/WC	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0211 01 A	Call switch/WC	Dimensions (HxWxD): 91 x 91 x 36 mm
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Pneumatic call switch/WC

77 0216 01...



77 0216 01 F

General Description

Switch with an air hose and a red rubber ball for triggering WC calls by squeezing the elastic ball. Two reassurance lights are on with a bright light, when a WC call was triggered. In addition, a short acoustic signal sounds when a WC call is triggered. While staff presence is switched on in the room, a WC emergency call is triggered.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- 2 m air hose with red ball made of soft PVC
- 2 red LEDs with two functions as reassurance and location light
- Short acoustic signal as feedback when a call is triggered
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Material of the elastic ball:	Soft PVC
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 25 mA

Article no.	Product name	Note
77 0216 00 F	Pneumatic call switch/WC	Dimensions (HxWxD): 80 x 80 x 56 mm
77 0215 00 A	Pneumatic call switch/WC	Dimensions (HxWxD): 91 x 91 x 56 mm
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"

Article no.	Product name	Note
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Call switch/WC with cancel switch

77 0217 00...



77 0217 00 F

General Description

Switch with call button with reassurance light for triggering WC calls. The reassurance light is on with a bright light, when a call was triggered. While staff presence is switched on in the room, a WC emergency call is triggered.

The switch also has a cancel button for cancelling WC calls and WC emergency calls.

Optionally activatable function: An integrated beeper signals forwarded calls when staff presence is switched on in the room.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- Red call button with symbol, with reassurance light and integrated location light, red LED

- Short acoustic signal as feedback when a call is triggered
- Grey cancel button with reminder light, yellow LED
- When presence is switched on: acoustic signalling of forwarded calls and acoustic signalling before announcements (function inactive in the factory setting)
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Clear identification by symbol on the call button
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 50 mA

Article no.	Product name	Note
77 0217 00 F	Call switch/WC with cancel switch	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0217 00 A	Call switch/WC with cancel switch	Dimensions (HxWxD): 91 x 91 x 36 mm

Article no.	Product name	Note
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Cancel switch/WC

77 0213 00...



77 0213 00 F

General Description

Switch with two cancel buttons with reminder light for cancelling WC calls and WC emergency calls.

Optionally activatable function: An integrated beeper signals forwarded calls when staff presence is switched on in the room.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- 2 grey cancel buttons with reminder light, yellow LED

- When presence is switched on: acoustic signalling of forwarded calls and acoustic signalling before announcements (function inactive in the factory setting)
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 50 mA

Article no.	Product name	Note
77 0213 00 F	Cancel switch/WC	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0213 00 A	Cancel switch/WC	Dimensions (HxWxD): 91 x 91 x 36 mm

Necessary accessories:

17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Cancel switch/WC with presence switch

77 0221 00...



77 0221 00 F

General Description

Switch with a cancel button with reminder light for cancelling WC calls and WC emergency calls.

Furthermore the switch is equipped with a presence button with reminder light for switching on and off the staff presence.

An integrated beeper for acoustic signalling of forwarded calls, while staff presence is switched on in the room.

The independent design visually identifies the switch as part of the nurse call system.

Intended for wall mounting.

Specification

- Grey cancel button with reminder light, yellow LED

- Green presence button for staff 1 with reminder light, green LED
- When presence is switched on: acoustic signalling of forwarded calls and acoustic signalling before announcements (function inactive in the factory setting)
- A channel number can be set on the switch to build functional units in the room.
- Easy plug-and-play installation
- Large touch pads for easy operation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Switch module with locking hooks for fixing on the mounting plate
- Mounting plate for screw fixing on a 1-gang back box
- Attractive design frame

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

Technical data

Dimensions:	see below
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Quiescent current consumption:	10 mA
Max. current consumption:	approx. 50 mA

Article no.	Product name	Note
77 0213 00 F	Cancel switch/WC with presence switch	Dimensions (HxWxD): 80 x 80 x 36 mm
77 0213 00 A	Cancel switch/WC with presence switch	Dimensions (HxWxD): 91 x 91 x 36 mm

Necessary accessories:

17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"

Article no.	Product name	Note
70 0807 00	Connector, 3-pole	see appendix "Accessories"

5. Radio-based call devices

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Radio receiver-T for connection socket 700xxxxx

Z 00 8202 33



General Description

Radio receiver on operating frequency 869.2125 MHz (social alarm frequency) for receiving the signals from assigned radio transmitters.

Flexible connection cable with 8-pin mini-DIN plug for connection to the 8-pin socket of Connection socket combi, bedhead unit MAG (70 0437 00), Connection socket combi (70 0425 00), Connection socket combi, bedhead unit (70 0435 00), Connection socket with call switch (70 0171 60 F, 70 0171 60 A) or Connection socket with call switch, bedhead unit (70 0171 50).

Activating the radio trigger generates the same call type that would be generated by a pear push switch connected to the same socket.

NOTE! The radio transmission is not monitored. According to the German standard DIN VDE 0834 the transmitters may be used only as complementary call devices in combination with a nurse call system.

Specification

- Integrated antenna
- 64 radio transmitters programmable
- Master mode can be activated to receive any number of radio transmitters
- If the battery of the assigned radio trigger is low, the LED on the radio receiver is flashing red
- In the event of reception blockage, fault indication on the radio receiver and call initiation
- Care mode available, deactivates selected transmitters for a set time at the touch of a key
- Daily message monitoring available with MyAmie, iVi™ and universal sensor, corresponds to the auto presence feature of telecare home units
- Vital monitoring available e.g. with wireless sensor mat, corresponds to inactivity monitoring of telecare home units
- Disconnection monitoring
- Radio range dependent on the spatial conditions, up to 30 m
- Short connection cable (approx. 16 cm) with plug

Usable radio transmitters

- MyAmie (article no. P68007/02)
- MyAmie (article no. P68007/04)
- Wireless sensor mat 869 MHz (article no. Z00800201)
- Large-surface pneumatic radio switch (article no. Z00820215)
- Combined handheld radio transmitter for use with radio receiver-T and -T UP (article no. Z00820241)
- Radio socket-T (article no. Z00820270)
- Radio flash alarm-T for connection to the 230 V socket (article no. Z00820271)
- Radio pull switch-T UP (article no. Z00820295)

- Wireless step-on sensor mat CM (article no. Z00800301)
- Wireless step-on sensor mat NM (article no. Z00800302)
- Further radio transmitters on request

Technical data

Dimensions (HxWxD):	66 x 46 x 18 mm
Weight:	approx. 50 g
Ingress protection code:	IP20
Power supply:	24 V DC
Quiescent current consumption:	12 mA

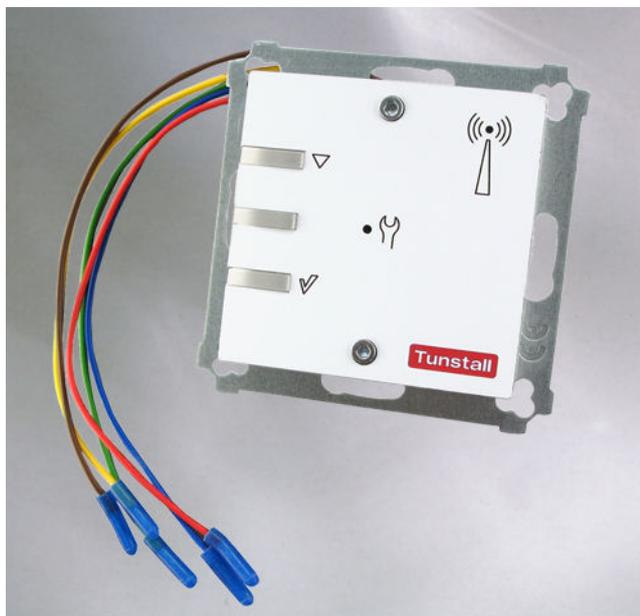
Article no.	Product name	Note
Z 00 8202 33	Radio receiver-T for connection socket 700xxxxx	

Optional accessories:

Z 00 8202 21	Magnetic wall bracket for radio receiver-T	see appendix "Accessories"
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Radio receiver-T UP with free wire ends

Z 00 8202 35



General Description

Radio receiver on operating frequency 869.2125 MHz (social alarm frequency) for receiving the signals from assigned radio transmitters.

The radio receiver-T UP is intended for connection to a room terminal in a system of the Flamenco system family, a system CONCENTO^{CARE} or CONCENTO^{PLUS}.

Triggering the radio transmitters triggers a call or radio call, depending on the nurse call system and its configuration.

NOTE! The radio transmission is not monitored. According to the German standard DIN VDE 0834 the transmitters may be used only as complementary call devices in combination with a nurse call system.

Specification

- Flush mounting on 1-gang back box
- Potential-free connection as normally closed or normally open contact
- Integrated antenna
- 64 radio transmitters programmable
- Master mode can be activated to receive any number of radio transmitters

- If the battery of the assigned radio trigger is low, the LED on the radio receiver is flashing red
- In the event of reception blockage, fault indication on the radio receiver and call initiation
- Care mode available, deactivates selected transmitters for a set time at the touch of a key
- Daily message monitoring available with MyAmie, iVi™ and universal sensor, corresponds to the auto presence feature of telecare home units
- Vital monitoring available e.g. with wireless sensor mat, corresponds to inactivity monitoring of telecare home units
- Radio range dependent on the spatial conditions, up to 30 m
- Support ring included in scope of supply
- Frame with 55 mm internal dimension required, not included in scope of delivery.
- Connection to a RAN interface or to a CONCENTO^{PLUS} room controller without RAN

To be ordered separately: Frame F, 1-gang (article no. 77 0210 53), intermediate frame Busch-Jaeger future® linear, Busch-axcent® (article no. 77 0210 56)

Usable radio transmitters

- MyAmie (article no. P68007/02)
- MyAmie (article no. P68007/04)
- Wireless sensor mat 869 MHz (article no. Z00800201)
- Large-surface pneumatic radio switch (article no. Z00820215)
- Combined handheld radio transmitter for use with radio receiver-T and -T UP (article no. Z00820241)
- Radio socket-T (article no. Z00820270)
- Radio flash alarm-T for connection to the 230 V socket (article no. Z00820271)
- Radio pull switch-T UP (article no. Z00820295)
- Wireless step-on sensor mat CM (article no. Z00800301)
- Wireless step-on sensor mat NM (article no. Z00800302)
- Further radio transmitters on request

Technical data

Power supply: 24 V DC

Quiescent current consumption: 12 mA

Dimensions (HxWxD): 55 x 55 x 10 mm

Weight: approx. 50 g

Article no.	Product name	Note
Z 00 8202 35	Radio receiver-T UP with free wire ends	
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
77 0210 53	Frame F, 1-gang	see appendix "Accessories"
77 0210 56	Intermediate frame Busch-Jaeger future® linear, Busch-axcent®	see appendix "Accessories"
77 0840 00	RAN interface	see separate data sheet

MyAmie, cream/red

P68007/02



[de] (Abbildung ähnlich)

General Description

A small and waterproof personal radio trigger for wireless initiation of calls. It is light weight and provides different wearing options. A wrist strap and a neckcord are included with scope of delivery.

NOTE! When using the radio transmitter in nurse call systems, i.e. assigned to a radio receiver-T or -T UP, the triggered call type is not called "alarm call" but "call".

Specification

- Use in conjunction with the following Tunstall products:
 - All current telecare home units
 - All radio receivers-T and -T UP
- Red call button
- Control LED lights up red, if call button is pressed
- Neckcord
- Wrist strap, 20 mm wide
- Auto presence monitoring
- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m

- Control LED and automatic battery monitoring
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.
- Dust tight and protected against ingress of water when the device is immersed in water under defined conditions of pressure and time (IP67)
- Long-lasting material durability due to the high performance plastic Hytrel®
- Battery: lithium button cell; CR2032; 3.0 V (not replaceable)
- Battery life: Up to 7 years (this duration can be reduced due to factors such as extreme temperatures, weak or interrupted connections, and battery aging)
- Radio power: The transmission power in the actual frequency band is less than 1 mW of effective radiated power.

Technical data

Dimensions (HxWxD):	14 x 27 x 36 mm
Weight:	7 g net weight (without attachments)
Housing material:	ABS
Call button material:	Hytrel®
Wrist strap material:	Polyester/elastic
Wrist strap closure material:	ABS
Housing colour:	Cream white
Call button colour:	Red
Ingress protection code:	IP67
Radio frequency:	869.2125 MHz
Ambient temperature operation:	0 °C to +45 °C
Ambient temperature storage/transportation:	-10 °C to +50 °C

Article no.	Product name	Note
P68007/02	MyAmie, cream/red	Model number (= number on the MyAmie label): 68005/02
Optional accessories:		
D6702112	EasyPress adapter MyAmie, Packaging unit 1 piece	see appendix "Accessories"
D6702128	MyAmie keyring, packaging unit 1 piece	see appendix "Accessories"
D6702135	Wrist strap (10 mm) MyAmie, packaging unit 10 pieces	see appendix "Accessories"
D6702136	Belt clip MyAmie, packaging unit 10 pieces	see appendix "Accessories"
Spare parts:		
D6702178A	Neckcord MyAmie, white, packaging unit 10 pieces	see appendix "Accessories"
D6702145	Wrist strap (20 mm) MyAmie, packaging unit 10 pieces	see appendix "Accessories"

MyAmie, grey/black

P68007/04



General Description

A small and waterproof personal radio trigger for wireless initiation of calls. It is light weight and provides different wearing options. A wrist strap and a neckcord are included with scope of delivery.

NOTE! When using the radio transmitter in nurse call systems, i.e. assigned to a radio receiver-T or -T UP, the triggered call type is not called "alarm call" but "call".

Specification

- Use in conjunction with the following Tunstall products:
 - All current telecare home units
 - All radio receivers-T and -T UP
- Black call button
- Control LED lights up red, if black call button is pressed
- Neckcord
- Wrist strap, 20 mm wide
- Auto presence monitoring
- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m

- Control LED and automatic battery monitoring
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.
- Dust tight and protected against ingress of water when the device is immersed in water under defined conditions of pressure and time (IP67)
- Long-lasting material durability due to the high performance plastic Hytrel®
- Battery: lithium button cell; CR2032; 3.0 V (not replaceable)
- Battery life: Up to 7 years (this duration can be reduced due to factors such as extreme temperatures, weak or interrupted connections, and battery aging)
- Radio power: The transmission power in the actual frequency band is less than 1 mW of effective radiated power.

Technical data

Dimensions (HxWxD):	14 x 27 x 36 mm
Weight:	7 g net weight (without attachments)
Housing material:	ABS
Call button material:	Hytrel®
Wrist strap material:	Polyester/elastic
Wrist strap closure material:	ABS
Housing colour:	Grey
Call button colour:	Black
Ingress protection code:	IP67
Radio frequency:	869.2125 MHz
Ambient temperature operation:	0 °C to +45 °C
Ambient temperature storage/transportation:	-10 °C to +50 °C

Article no.	Product name	Note
P68007/04	MyAmie, grey/black	Model number (= number on the MyAmie label): 68005/04
Optional accessories:		
D6702112	EasyPress adapter MyAmie, Packaging unit 1 piece	see appendix "Accessories"
D6702128	MyAmie keyring, packaging unit 1 piece	see appendix "Accessories"
D6702135	Wrist strap (10 mm) MyAmie, packaging unit 10 pieces	see appendix "Accessories"
D6702136	Belt clip MyAmie, packaging unit 10 pieces	see appendix "Accessories"
Spare parts:		
D6702178A	Neckcord MyAmie, white, packaging unit 10 pieces	see appendix "Accessories"
D6702145	Wrist strap (20 mm) MyAmie, packaging unit 10 pieces	see appendix "Accessories"

Handheld transmitter, combi, for use with radio receiver-T and -T UP

Z 00 8202 41



General Description

Handheld radio transmitter in watch form with wrist strap to wear on the wrist or with neckcord.

Use in conjunction with an associated radio receiver-T or radio receiver-T UP.

ATTENTION! Not suitable for use with telecare home units or CareAssist.

Specification

- Large membrane button, approx. 254 mm², for triggering calls
- LED for call and battery message
- "Low battery" detection with LED display and radio transmission
- LED trigger indicator lights up red when the red trigger button is pressed
- Typical battery life: 3 years with daily single use
- CR2032 battery replaceable
- Wrist strap with clip closure
- Neckcord
- Waterproof (IP68)

Technical data

Dimensions

(HxWxD): 46 x 43 x 10 mm

Weight: approx. 25 g

Radio frequency: 869.2125 MHz

Battery: Type: CR2032, voltage: 3 V, chemical system: lithium manganese dioxide

Article no.	Product name	Note
Z 00 8202 41	Handheld transmitter, combi, for use with radio receiver-T and -T UP	

Wireless step-on sensor mat CM

Z 00 8003 01



- Large sensor area
- Splash-proof
- Can be damp cleaned and disinfected
- Battery powered - no wiring, CR2032, replaceable
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.

General Description

Particularly robust contact step-on sensor mat for the monitoring of person movements, also for dementia or vital detection. Sturdy, step-, slip- and stumble-proof design with bevelled edges and easy to clean surface in nap structure.

The mat is positioned e.g. by the bed. A call is raised when the patient gets out of bed or falls out of bed and onto the mat. The call is transmitted to the assigned radio receiver.

Specification

- Use in conjunction with the following Tunstall products:
 - All current telecare home units
 - All radio receivers-T and -T UP
- Rectangular shape
- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m

Technical data

Dimensions (HxWxD):	9* x 1100 x 700 mm
* Height at the transmitter module:	15 mm
Weight:	approx. 7500 g
Material:	Polyurethane (PU)
Ingress protection code:	IP54
Colour:	Grey
Battery:	CR2032, button cell, chemical system: primarily lithium manganese, 3 V
Radio frequency:	869.2125 MHz

Article no.	Product name	Note
Z 00 8003 01	Wireless step-on sensor mat CM	

Wireless step-on sensor mat NM

Z 00 8003 02



General Description

Particularly robust contact step-on sensor mat for the monitoring of person movements, also for dementia or vital detection. Sturdy, step-, slip- and stumble-proof design with bevelled edges and easy to clean surface in nap structure.

The mat is positioned e.g. by the bed. A call is raised when the patient gets out of bed or falls out of bed and onto the mat. The call is transmitted to the assigned radio receiver.

Specification

- Use in conjunction with the following Tunstall products:
 - All current telecare home units
 - All radio receivers-T and -T UP
- Semicircular shape

- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m
- Large sensor area
- Splash-proof
- Can be damp cleaned and disinfected
- Battery powered - no wiring, CR2032, replaceable
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.

Technical data

Dimensions (HxWxD): 9* x 1100 x 700 mm

* Height at the transmitter module: 15 mm

Weight: approx. 7500 g

Material: Polyurethane (PU)

Ingress protection code: IP54

Colour: Grey

Battery: CR2032, button cell, chemical system: primarily lithium manganese, 3 V

Radio frequency: 869.2125 MHz

Article no.	Product name	Note
Z 00 8003 02	Wireless step-on sensor mat NM	

Wireless sensor mat 869 MHz

Z 00 8002 01



- Large sensor area
- Splash-proof
- Soft PVC, easy to clean
- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m
- Battery powered - no wiring, CR2032, replaceable
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.

General Description

Large mat for triggering a call by stepping on or pressing the mat.

Suitable for use in hospitals, care homes or similar establishments.

The mat is positioned e.g. by the bed. A call is raised when the patient gets out of bed or falls out of bed and onto the mat. The call is transmitted to the assigned radio receiver.

Specification

- Use in conjunction with the following Tunstall products:
 - All current telecare home units
 - All radio receivers-T and -T UP

Technical data

Dimensions (WxD):	1200 x 500 mm
Weight:	approx. 1500 g
Stepping area thickness:	4 mm
Material:	Soft PVC
Colour:	Ivory-coloured
Battery:	CR2032, button cell, chemical system: primarily lithium manganese, 3 V
Radio frequency:	869.2125 MHz

Article no.	Product name	Note
Z 00 8002 01	Wireless sensor mat 869 MHz	

Large-surface radio pneumatic switch

Z 00 8201 15



- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.
- Ingress protection code: IP44 (do not use in wet cells)
- 3 V battery (CR2450), replaceable

General Description

Wireless large-surface pneumatic switch. Only a very slight actuation force is required in order to activate the switch. It is therefore very well suited when there are activation problems due to illness.

Specification

- Use in conjunction with the following Tunstall products:
 - All current telecare home units
 - All radio receivers-T and -T UP
- Red trigger surface, round, Ø 90 mm
- Optical reassurance indicator that lights up all around as well as vibration when the button is pressed (vibration function can be disabled)

Technical data

Dimensions (HxØ):	40 x 110 mm
Diameter of the push surface:	90 mm
Bellows material:	TPE/TPR
Weight:	200 g
Colour:	Red
Battery:	3 V battery (CR2450)
Radio frequency:	869.2125 MHz
Ambient temperature:	-10 °C to +55 °C

Article no.	Product name	Note
Z 00 8201 15	Large-surface radio pneumatic switch	
Optional accessories:		
Z 00 8201 16	Wall bracket for large-surface pneumatic switch	see appendix "Accessories"

Radio socket-T

Z 00 8202 70



General Description

The radio socket T allows 230 V consumers to be switched on in conjunction with associated radio transmitters. After receiving a call signal, the radio socket-T switches the connected consumer either for five minutes or until the next radio signal

A typical application is, for example, switching a lamp with a wireless sensor mat. When getting up on the wireless sensor mat, a person not only triggers a call, but at the same time automatically switches on a lamp that is connected to the radio socket-T.

Timer mode: Radio socket-T switches off for 5 minutes when the radio transmitter is triggered. Triggering the radio transmitter again during these 5 minutes resets the timer back to 5 minutes.

Toggle mode: Radio socket-T switches by triggering the radio transmitter or pressing a button on the radio socket-T and remains in this state until the next activation.

Different radio transmitters can be assigned to timer mode and toggle mode.

Both operating modes can be used simultaneously.

NOTE! Radio socket-T is not used to transfer calls, but to switch a 230 V consumer independently of call transfer.

Specification

- To plug into a 230 V socket
- Max. switching capacity: 10 A (2300 W)
- Integrated antenna
- 64 radio transmitters programmable
- Switching relay: single-pole, switching current 10 A resistive
- When the battery of an assigned radio transmitter is low, the LED on the radio socket-T flashes orange
- Radio range, depending on the building structure, up to 30 m

Usable radio transmitters

- MyAmie (article no. P68007/02)
- MyAmie (article no. P68007/04)
- Universal sensor (article no. 61005/30)
- Wireless sensor mat 869 MHz (article no. Z00800201)
- Large-surface pneumatic radio switch (article no. Z00820215)
- Wireless step-on sensor mat CM (article no. Z00800301)
- Wireless step-on sensor mat NM (article no. Z00800302)
- Radio smoke detector (article no. 68005/70)
- Radio heat detector (article no. 68005/71)
- Further radio transmitters on request

Technical data

Dimensions (HxWxD):	110 x 50 x 40 mm
Weight:	approx. 130 g
Ingress protection code:	IP30
Radio frequency:	869.2125 MHz
Power supply:	230 V AC/50 Hz

Article no.	Product name	Note
Z 00 8202 70	Radio socket-T	

Radio flash alarm-T

Z 00 8202 71



General Description

The radio flash alarm-T is plugged into a 230 V socket. It reports calls from associated radio stations visually via a flashing light and/or acoustically via a sounder. The signal is cancelled by pressing a button on the wireless flash alarm-T

The type of signalling is adjustable: flashing light and sounder, flashing light only, sounder only.

NOTE! The use of the radio flash alarm-T is no substitute for a Tunstall call system to which the radio transmitter is assigned. This is simply an additional, unmonitored signalling .

Specification

- All current telecare home units
- All radio receivers-T and -T UP
- To plug into a 230 V socket
- The socket can continue to be used by another consumer that has a maximum switching capacity of 10 A (2300 W) However, it must not be exceeded.

- Integrated antenna
- 64 radio transmitters programmable
- Visual signalling via built-in flash light
- Acoustic signalling via built-in sounder
- When the battery of an assigned radio transmitter is low, the LED on the radio flash alarm-T flashes orange
- Radio range, depending on the building structure, up to 30 m

Usable radio transmitters

- MyAmie (article no. P68007/02)
- MyAmie (article no. P68007/04)
- Universal sensor (article no. 61005/30)
- Wireless sensor mat 869 MHz (article no. Z00800201)
- Large-surface pneumatic radio switch (article no. Z00820215)
- Wireless step-on sensor mat CM (article no. Z00800301)
- Wireless step-on sensor mat NM (article no. Z00800302)
- Radio smoke detector (article no. 68005/70)
- Radio heat detector (article no. 68005/71)
- Further radio transmitters on request

Technical data

Dimensions (HxWxD):	110 x 50 x 40 mm
Weight:	approx. 130 g
Signal volume:	85 dB
Ingress protection code:	IP30
Radio frequency:	869.2125 MHz
Power supply:	230 V AC/50 Hz

Article no.	Product name	Note
Z 00 8202 71	Radio flash alarm-T	

Radio call switch-T

Z 00 8202 80



- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m
- Battery life approx. 3 years when used once a day
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.
- Wall mounting
- For wall mounting included: 2 screws 3.5 x 35 mm, 2 dowels 5 x 28 mm

General Description

Radio call switch to trigger a call by pressing the large red call button. When the call button is pressed, it sends a radio signal to the associated Tunstall emergency call device

Specification

- Use in conjunction with the following Tunstall products:
 - All current telecare home units
 - All radio receivers-T and -T UP
- Large call button
- LED display for call and battery message

Technical data

Dimensions (HxWxD):	80 x 80 x 13 mm
Weight:	approx. 70 g
Ingress protection code:	IP67
Radio frequency:	869.2125 MHz
Battery:	Type: CR2032, voltage: 3 V, chemical system: lithium manganese dioxide

Article no.	Product name	Note
Z 00 8202 80	Radio call switch-T	

Radio pull cord switch-T

Z 00 8202 90



General Description

Pull cord switch to trigger a call by pulling the pull cord or the call handle. When the pull cord is pulled or the large button is pressed, it sends a radio signal to the assigned Tunstall emergency call unit.

Specification

- Use in conjunction with the following Tunstall products:

- All current telecare home units
- All radio receivers-T and -T UP
- Pull cord with red call handle (triangle), approx. 3 m, adjustable
- Large button
- LED display for call and battery message
- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m
- Battery life approx. 3 years when used once a day
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.
- Wall mounting
- Included with supply: 3 screws 3.5 x 35 mm, 3 dowels 5 x 28 mm/4 screws 2.2 x 6.5 mm

Technical data

Dimensions

(HxWxD): 80 x 80 x 13 mm

Pull cord length: approx. 3 m, adjustable

Weight: approx. 98 g with pull cord

Ingress protection code:

IP67

Radio frequency:

869.2125 MHz

Battery:

Type: CR2032, voltage: 3 V, chemical system: lithium manganese dioxide

Article no.	Product name	Note
Z 00 8202 90	Radio pull cord switch-T	

Radio pull cord switch-T UP

Z 00 8202 95



- 2,5 m long, red pull cord with red call handle (triangle) and safety lock
- Safety release opens if the pulling force is too strong
- Clear identification by symbol
- When a call is triggered, the LED lights up
- Radio coverage depends on the building structure:
 - In conjunction with telecare home unit up to 50 m
 - In conjunction with radio receiver-T or -T UP up to 30 m
- If the battery is low:
 - The telecare home unit automatically triggers a background call to the monitoring centre.
 - The LED on the radio Receiver-T and -T UP flashes red.
- 3 V lithium battery (CR2032), replaceable
- Central plate 55 x 55 mm included in delivery
- Frame Jung AS 500 included in delivery (Manufacturer's article no.: AS 581 WW)
- Suitable for one-gang back box

General Description

Radio pull cord switch for wall and ceiling mounting.

Intelligent battery monitoring with fault reporting to the associated receiver.

Flush-mounted installation. Surface-mounted installation with surface cap article no. 19 9200 16 (to be ordered separately).

Optical function reassurance indicator.

Pull cord variable up to 2,5 m length.

Strangulation protection through safety release that opens if the pulling force is too strong.

Specification

- Use in conjunction with the following Tunstall products:
 - All current telecare home units
 - All radio receivers-T and -T UP

Technical data

Dimensions

(HxWxD): 81 x 81 x 42 mm

Colour: Alpine white

Weight: approx. 100 g

Ingress protection

code: IP44

Radio frequency: 869.2125 MHz

Battery: Type: CR2032, voltage: 3 V, chemical system: lithium manganese dioxide

Article no.	Product name	Note
Z 00 8202 95	Radio pull cord switch-T UP	
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Optional accessories:		
19 9200 16	Surface cap, 1-gang, alpine white	see appendix "Accessories"

6. Signal lamps, corridor displays

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Room lamp, 4 sections

77 0170 10



- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change
- A channel number can be set on the room lamp to build functional units in the room
- Easy plug-and-play installation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Mounting on 1-gang back box

Light sections

- LED red: calls
- LED green: presence of staff 1
- LED yellow: presence of staff 2
- LED white: WC call

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

General Description

Signal lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display.

Suitable for installation on walls in corridors or rooms.

Modular design with interchangeable decorative frame.

Additional frame design options available upon request.

Specification

- 4 light sections

Technical data

Dimensions (HxWxD):	110 x 150 x 40 mm
Housing material:	ABS
Material decorative frame:	Glass
Light dome material:	Styrene-acrylonitrile
Housing colour:	Silver coloured
Power supply:	24 V DC
Quiescent current consumption:	20 mA
Additional current consumption per illuminated light section:	10 mA

Article no.	Product name	Note
77 0170 10	Room lamp, 4 sections	
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Room lamp, 3 sections

77 0170 00



- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change
- A channel number can be set on the room lamp to build functional units in the room
- Easy plug-and-play installation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Mounting on 1-gang back box

Light sections

- LED red: calls
- LED green: presence of staff 1
- LED yellow: presence of staff 2

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

General Description

Signal lamp with 3 light sections for optical signalling of all call types and staff presences (2 staff groups).

Suitable for installation on walls in corridors or rooms.

Modular design with interchangeable decorative frame.

Additional frame design options available upon request.

Technical data

Dimensions (HxWxD):	110 x 150 x 40 mm
Housing material:	ABS
Light dome material:	Styrene-acrylonitrile
Housing colour:	Silver coloured
Power supply:	24 V DC
Quiescent current consumption:	20 mA
Additional current consumption per illuminated light section:	10 mA

Specification

- 3 light sections

Article no.	Product name	Note
77 0170 00	Room lamp, 3 sections	
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Room lamp cardiac alarm, WC

77 0170 01



- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change
- A channel number can be set on the room lamp to build functional units in the room
- Easy plug-and-play installation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Mounting on 1-gang back box

Light sections

- LED blue: Cardiac alarm
- LED blue: Cardiac alarm
- LED white: WC call

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

General Description

Signal lamp with 3 light sections as complement to room lamp, article no. 77 0170 00, for optical signaling of cardiac alarms and/or WC calls.

Suitable for installation on walls in corridors or rooms.

Modular design with interchangeable decorative frame.

Additional frame design options available upon request.

Technical data

Dimensions (HxWxD):	110 x 150 x 40 mm
Housing material:	ABS
Light dome material:	Styrene-acrylonitrile
Housing colour:	Silver coloured
Power supply:	24 V DC
Quiescent current consumption:	20 mA
Additional current consumption per illuminated light section:	10 mA

Specification

- 3 light sections

Article no.	Product name	Note
77 0170 01	Room lamp cardiac alarm, WC	
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Room lamp, 4 sections, with doorplate

77 0171 10



- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change
- A channel number can be set on the room lamp to build functional units in the room
- Easy plug-and-play installation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Mounting on 1-gang back box

Light sections

- LED red: calls
- LED green: presence of staff 1
- LED yellow: presence of staff 2
- LED white: WC call

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

General Description

Signal lamp with 4 light sections for optical signalling of all call types, staff presences (2 staff groups), and for WC call as single display.

Doorplate with label field for room designation.

Suitable for installation on walls in corridors or rooms.

Modular design.

Specification

- 4 light sections

Technical data

Dimensions (HxWxD):	190 x 150 x 40 mm
Label field (HxW):	approx. 70 x 92 mm
Housing material:	ABS
Light dome material:	Styrene-acrylonitrile
Housing colour:	Silver coloured
Power supply:	24 V DC
Quiescent current consumption:	20 mA
Additional current consumption per illuminated light section:	10 mA

Article no.	Product name	Note
77 0171 10	Room lamp, 4 sections, with doorplate	
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Room lamp, 3 sections, with doorplate

77 0171 00



- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change
- A channel number can be set on the room lamp to build functional units in the room
- Easy plug-and-play installation
- Integrated electronics with 3-pole plug connection for the RAN room bus
- Mounting on 1-gang back box

Light sections

- LED red: calls
- LED green: presence of staff 1
- LED yellow: presence of staff 2

To be ordered separately: Connector, 3-pole (article no. 70 0807 00)

General Description

Signal lamp with 3 light sections for optical signalling of all call types and staff presences (2 staff groups).

Doorplate with label field for room designation.

Suitable for installation on walls in corridors or rooms.

Modular design.

Specification

- 3 light sections

Technical data

Dimensions (HxWxD):	190 x 150 x 40 mm
Label field (HxW):	approx. 70 x 92 mm
Housing material:	ABS
Light dome material:	Styrene-acrylonitrile
Housing colour:	Silver coloured
Power supply:	24 V DC
Quiescent current consumption:	20 mA
Additional current consumption per illuminated light section:	10 mA

Article no.	Product name	Note
77 0171 00	Room lamp, 3 sections, with doorplate	
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 00	Connector, 3-pole	see appendix "Accessories"

Universal room lamps

77 0180 00, 77 0180 10, 77 0182 10, 77 0182 50



Additional frame design options available upon request.

Specification

- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change
- Easy plug-and-play installation
- Mounting on 1-gang back box

To be ordered separately: Connector, 7-pole (article no. 70 0807 07)

Technical data

Dimensions (HxWxD):	110 x 150 x 40 mm
Housing material:	ABS
Light dome material:	Styrene-acrylonitrile
Housing colour:	Silver coloured
Power supply:	24 V DC
Quiescent current consumption:	20 mA
Additional current consumption per illuminated light section:	10 mA

General Description

Signal lamp without RAN connection.

Suitable for installation on walls in corridors or rooms.

Modular design with interchangeable decorative frame.

Article no.	Product name	Light sections	Application
77 0180 00	Room lamp universal, 4 sections	<ul style="list-style-type: none"> • Red: Call • Green: Staff 1 • Yellow: Staff 2 • White: WC call 	
77 0180 10	Room lamp universal, 3 sections	<ul style="list-style-type: none"> • Red: Call • Green: Staff 1 • White: WC call 	For example: system CONCENTO ^{CARE}
77 0182 10	Room lamp universal, 3 sections	<ul style="list-style-type: none"> • Green: Staff 1 • White: Telephone call 	Room with: <ul style="list-style-type: none"> • ComStation^{BUS-C} (77 0605 50) via connection socket ComStation (77 0452 30 F) • ComStation^{PC} (77 0602 00) via connection socket ComStation^{PC} (77 0452 60 F)
77 0182 50	Room lamp universal, 1 section	<ul style="list-style-type: none"> • Red: Call 	

Article no.	Product name	Note
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
70 0807 07	Connector, 7-pole	see appendix "Accessories"

Universal room lamps with doorplate

77 0181 10, 77 0181 00



Additional frame design options available upon request.

Specification

- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change
- Easy plug-and-play installation
- Mounting on 1-gang back box

To be ordered separately: Connector, 7-pole (article no. 70 0807 07)

Technical data

Dimensions (HxWxD):	190 x 150 x 40 mm
Label field (HxW):	approx. 70 x 92 mm
Housing material:	ABS
Light dome material:	Styrene-acrylonitrile
Housing colour:	Silver coloured
Power supply:	24 V DC
Quiescent current consumption:	20 mA
Additional current consumption per illuminated light section:	10 mA

General Description

Signal lamp with doorplate without RAN connection.

Doorplate with label field for room designation.

Suitable for installation on walls in corridors or rooms.

Modular design with interchangeable decorative frame.

Article no.	Product name	Light sections	Application
77 0181 00	Room lamp Universal, 4 sections, with doorplate	<ul style="list-style-type: none"> • Red: Call • Green: Staff 1 • Yellow: Staff 2 • White: WCcall 	
77 0181 10	Room lamp Universal, 3 sections, with doorplate	<ul style="list-style-type: none"> • Red: Call • Green: Staff 1 • White: WC call 	For example, system CONCENTO ^{CARE}

Article no.	Product name	Note
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Necessary accessories:

17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"

Article no.	Product name	Note
70 0807 07	Connector, 7-pole	see appendix "Accessories"

Corridor display IP Alpha 16, double-sided

76 0160 00



General Description

Display device for alphanumeric display of calls and general system information. Tone generator for acoustic signals. Two loudspeakers for announcements.

Intended for installation in corridors or staff rooms.

Direct connection to the IP network of the nurse call system.

Double-sided design, intended for ceiling suspension.

Specification

- 16 alphanumeric
- Text height 50 mm, luminous colour: Red
- LEDs with ambient light dependent luminosity, automatic adjustment
- Display of fresh calls. Additional display of answered calls optional (configuration per ward)
- Display of the room as call location. Additional display of the ward optional (configuration per ward)
- Steady display of the highest priority call or as an option: Scrolling display of several calls (configuration per ward)
- Additional display of presences and faults optional (configuration per ward)
- Longer texts are automatically displayed as ticker

- Call tone for acoustic signalling of calls
- Call tone volume adjustable (soft, medium, loud) (configuration per ward)
- Call tone output can be switched off on the device
- Announcement transmission
- Announcement transmission can be switched off on the device
- Display of the time in idle state (can be switched off on the device)
- Direct connection to the IP network of the nurse call system, RJ45 socket on the device
- Power supply via PoE+ or via separate 24 V DC supply (pluggable screw terminal, 2-pole)
- Reverse polarity protection, over-voltage protection
- Incl. ceiling suspension, 50 cm long, steplessly adjustable

Technical data

Dimensions (HxWxD):	145 x 785 x 55 mm
Weight:	approx. 2500 g
Housing material:	Aluminium, lacquered, with end caps made of ABS, lacquered
Material of the front windows:	Acrylic glass
Housing colour:	RAL 9003, signal white
Ingress protection code:	IP20
Standby current consumption:	140 mA at 24 V DC
Current consumption on call:	450 mA at 24 V DC
Standby power consumption:	4.3 W with PoE+
Power consumption on call:	13.0 W with PoE+
Ambient temperature:	+5 °C to +40 °C
Relative humidity:	0% to 85% (non-condensing)

Article no.	Product name	Note
76 0160 00	Corridor display IP Alpha 16, double-sided	Double-sided version.
Optional accessories:		
19 0780 05	Extension set for ceiling suspension, 0.5 m	see appendix "Accessories"
Spare parts:		
70 0807 08	Pluggable screw terminal, 2-pole	
00 0252 02	ESD grommet	

Corridor display IP Alpha 16

76 0150 00



General Description

Display device for alphanumeric display of calls and general system information. Tone generator for acoustic signals. Two loudspeakers for announcements.

Intended for installation in corridors or staff rooms.

Direct connection to the IP network of the nurse call system.

Single-sided design, intended for wall mounting.

Specification

- 16 alphanumeric
- Text height 50 mm, luminous colour: Red
- LEDs with ambient light dependent luminosity, automatic adjustment
- Display of fresh calls. Additional display of answered calls optional (configuration per ward)
- Display of the room as call location. Additional display of the ward optional (configuration per ward)
- Steady display of the highest priority call or as an option: Scrolling display of several calls (configuration per ward)
- Additional display of presences and faults optional (configuration per ward)
- Longer texts are automatically displayed as ticker

- Call tone for acoustic signalling of calls
- Call tone volume adjustable (soft, medium, loud) (configuration per ward)
- Call tone output can be switched off on the device
- Announcement transmission
- Announcement transmission can be switched off on the device
- Display of the time in idle state (can be switched off on the device)
- Direct connection to the IP network of the nurse call system, RJ45 socket on the device
- Power supply via PoE+ or via separate 24 V DC supply (pluggable screw terminal, 2-pole)
- Reverse polarity protection, over-voltage protection
- Keyhole slots for wall mounting

Technical data

Dimensions (HxWxD):	125 x 785 x 55 mm
Weight:	approx. 1800 g
Housing material:	Aluminium, lacquered, with end caps made of ABS, lacquered
Front window material:	Acrylic glass
Housing colour:	RAL 9003, signal white
Ingress protection code:	IP20
Standby current consumption:	130 mA at 24 V DC
Current consumption on call:	440 mA at 24 V DC
Standby power consumption:	3.8 W with PoE+
Power consumption on call:	12.0 W with PoE+
Ambient temperature:	+5 °C to +40 °C
Relative humidity:	0% to 85% (non-condensing)

Article no.	Product name	Note
76 0150 00	Corridor display IP Alpha 16	Single-sided version.

Article no.	Product name	Note
Spare parts:		
70 0807 08	Pluggable screw terminal, 2-pole	
00 0252 02	ESD grommet	

Corridor display Alpha 16, double-sided

77 0160 00



General Description

Display device for alphanumeric display of calls and general system information. Tone generator for acoustic signals. Loudspeakers for announcements.

Intended for installation in corridors or staff rooms.

Direct connection to the OSYnet group bus.

Double-sided design, intended for ceiling mounting.

Specification

- 16 alphanumeric characters
- LED display, red, self-luminous
- Display of fresh calls. Additional display of answered calls optional (configuration per ward)
- Display of the room as call location. Additional display of the ward optional (configuration per ward)
- Steady display of the highest priority call or as an option: Scrolling display of several calls (configuration per ward)

- Additional display of presences and faults optional (configuration per ward)
- Longer texts are automatically displayed as ticker
- Call tone for acoustic signalling of calls
- Call tone volume adjustable (soft, medium, loud) (configuration per ward)
- Announcement transmission
- Display of the time in idle state
- Ceiling mount included
- Interface to the OSYnet group bus integrated
- 1.8 m connection cable (75 cm from tube end) with free wire ends for on-site connection to the OSYnet group bus

Technical data

Dimensions without ceiling mount (HxWxD):	120 x 770 x 120 mm
Housing material:	Aluminium
Front window material:	Acrylic glass
Housing colour:	RAL 9016, traffic white
Character height:	50 mm
Reading distance according to DIN:	25 m
Weight:	6 kg
Power supply:	24 V DC
Average current consumption:	600 mA

Article no.	Product name	Note
77 0160 00	Corridor display Alpha 16, double-sided	Double sided version.

Corridor display Alpha 16

77 0150 00



General Description

Display device for alphanumeric display of calls and general system information. Tone generator for acoustic signals. Loudspeakers for announcements.

Intended for installation in corridors or staff rooms.

Direct connection to the OSYnet group bus.

Single-sided design, intended for ceiling mounting.

Specification

- 16 alphanumeric
- LED display, red, self-luminous
- Display of fresh calls. Additional display of answered calls optional (configuration per ward)
- Display of the room as call location. Additional display of the ward optional (configuration per ward)
- Steady display of the highest priority call or as an option: Scrolling display of several calls (configuration per ward)

- Additional display of presences and faults optional (configuration per ward)
- Longer texts are automatically displayed as ticker
- Call tone for acoustic signalling of calls
- Call tone volume adjustable (soft, medium, loud) (configuration per ward)
- Announcement transmission
- Display of the time in idle state
- Ceiling mount included
- Interface to the OSYnet group bus integrated
- 1.8 m connection cable (75 cm from tube end) with free wire ends for on-site connection to the OSYnet group bus

Technical data

Dimensions without ceiling mount (HxWxD):	120 x 770 x 35 mm
Housing material:	Aluminium
Front window material:	Acrylic glass
Housing colour:	RAL 9016, traffic white
Character height:	50 mm
Reading distance according to DIN:	25 m
Weight:	3 kg
Power supply:	24 V DC
Average current consumption:	300 mA

Article no.	Product name	Note
77 0150 00	Corridor display Alpha 16	Single sided version.

Group lamp

77 011x 02



Group lamp, 3 groups

General Description

Signal lamp for several groups for group-related signalling of calls.

Two single light sections (red and green) per group with connection possibilities for signalling of calls and call status.

Specification

- Energy-saving, long-life LED illuminants

- Service-friendly thanks to removable covers and easily replaceable LED modules
- 1 mounting frame made of sheet steel
- Connection to the OSYnet group bus via OSYlink-group lamp (article no. 77 0802 00, order separately)

Light sections

- Red: Calls
- Green: Call status, presence

Technical data

Dimensions (HxWxD) without mounting frame

- Group lamp, 2 groups: 80 x 86 x 70 mm
- Group lamp, 3 groups: 240 x 86 x 70 mm
- Group lamp, 4 groups: 320 x 86 x 70 mm

Material: Polycarbonate

Power supply: 24 V DC

Quiescent current consumption: 20 mA

Additional current consumption per illuminated light section: 10 mA

Article no.	Product name	Note
77 0112 02	Group lamp, 2 groups	2 groups
77 0113 02	Group lamp, 3 groups	3 groups
77 0114 02	Group lamp, 4 groups	4 groups

Necessary accessories:

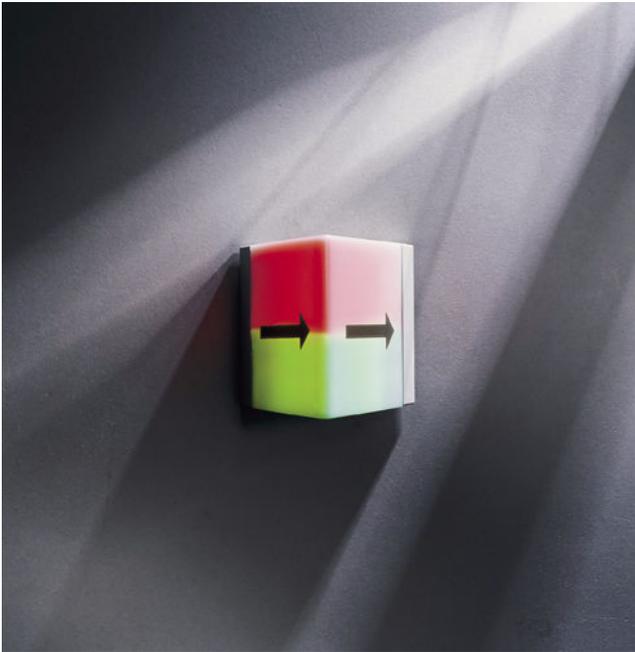
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"

Spare parts:

13 5200 00A	LED module, red
13 5202 00A	LED module, green

Direction lamp

77 0111 02



General Description

Signal lamp with two sections, labelled with direction arrows for direction-referred indication of calls and call status incl. two LED modules (red, green).

Direction lamps indicate the way to the call location in the corridor by illuminating arrows. They are installed where intersections or unclear areas make orientation difficult.

Specification

- 2 light sections
- Energy-saving, long-life LED illuminants
- Service-friendly thanks to removable cover and easily replaceable LED modules
- Mounting on 1-gang back box
- Connection to the OSYnet group bus via OSYlink-group lamp (article no. 77 0802 00, order separately)

Light sections

- Red: Calls
- Green: Call status, presence

Technical data

Dimensions (HxWxD):	80 x 86 x 70 mm
Material:	Polycarbonate
Power supply:	24 V DC
Quiescent current consumption:	0 mA
Additional current consumption per illuminated light section:	10 mA

Article no.	Product name	Note
77 0111 02	Direction lamp	
Necessary accessories:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Optional accessories:		
78 0170 90	Safety cover for prison cell lamp, 2 sections	For use in prisons, see appendix "Accessories"
Spare parts:		
13 5200 00A	LED module, red	
13 5202 00A	LED module, green	

7. Call handling consoles

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ComStation IP

76 0605 50



General Description

The ComStation IP is a ward console for the nurse station, designed for answering and handling calls.

The ComStation IP is based on an IP desktop telephone with an adapted Android operating system. The function as ComStation is pre-installed as an application on the IP telephone and always works in the foreground.

It is operated via a large touch display with a 7-inch screen diagonal.

The HD Voice capable hardware and VoIP voice transmission ensure excellent voice quality and intelligibility in all operating modes.

The ComStation IP supports the nursing organisation through the possibilities of ward coupling and operation according to predefined shifts. As it is an IP terminal it can be used locationally flexible.

Equipment

- ComStation app on IP desk phone with adapted Android operating system
- Capacitive 5-point Wide SVGA touch display, 7", resolution: 1024x600 Pixel
- Desktop installation or wall mounting
- Power supply via PoE or included plug-in power supply unit

- App help

Features

- **Call handling:**
 - Display of all calls and presences of the connected ward (exceptions only for ward coupling or shift operation, see below)
 - Display of calls in a list, ordered by priority as defined by the nurse call system. The highest priority call is at the top.
 - Display of presences in a list in chronological order. The oldest message is at the top.
 - Differentiation of call categories (calls, emergency calls, alarms) by flashing sequence and colours
 - In addition, acoustic differentiation of call categories through tone sequence
 - Distinction between fresh and answered calls
 - When the call is answered, the call type, location, bed identification are displayed
 - Speech connection to the room or to the bed depending on the call device
 - Contact to staff by creating a speech connection to a room with presence switched on
- **Speech connections:**
 - Hands-free speech or discreet speech via handset
 - Speech connection status display: Privacy in the room on/off, privacy on ComStation on/off
- **Announcements:**
 - Announcement to all rooms and corridors of the ward
 - Announcement to all rooms in the ward with the presence of staff 1 or staff 2 switched on or independently of the staff group
- **Call:**
 - Call rooms in the connected ward
 - Call other ComStation on the ward
 - During ward coupling, additional call to the ComStations of the connected wards
 - Call ManagementCenter (if available)

- **Ward coupling:**

A ward coupling is a number of wards within calls are forwarded and displayed on ComStations. Ward couplings that can be activated must be predefined using the SystemOrganizer configuration software

- During ward coupling, display of all calls and presences of the coupled wards
- Activate ward coupling by selecting from the list of predefined ward couplings
- Deactivate a ward coupling

- **Shift operation:**

A zone is a part of the ward within which calls are forwarded and displayed on the ComStation. The division into zones can change. Each division of the ward into zones is called a "shift." Activatable shifts must be predefined using the SystemOrganizer configuration software. Zones can overlap, meaning that a ComStation can belong to several zones

- During shift operation, display of all calls and presences in the zone to which this ComStation is assigned.
- Activate a shift by selecting from the list of predefined shifts
- Deactivate a shift

- **System safety through fault signalling:**

- Display of nurse call system faults on the ward
- Display when the connection between ComStation and the nurse call system has failed

Interfaces

- Connection via standard patch cable to the IP network of the nurse call system
- The included plug-in power supply unit must be connected to 230 V AC mains socket (100 – 240 V AC), if power is not supplied via PoE
- Headset

Technical data

Dimensions (HxWxD):	84 x 252 x 211 mm
Weight:	1080 g
Material of housing and handset:	ABS
Touch screen material:	Glass
Spiral cable material:	Soft PVC
Power supply:	via PoE or included plug-in power supply unit
Plug-in power supply unit, input:	100 – 240 V AC / 50 – 60 Hz
PoE power consumption:	approx. 11 W
Power consumption via plug-in power supply unit:	approx. 9 W
Ambient temperature operation:	0 °C to +40 °C
Ambient temperature storage/transportation:	-10 °C to +60 °C
Relative humidity:	10 % to 90 % (non-condensing)

Article no.	Product name	Note
76 0605 50	ComStation IP	

ComStation^{PC}

77 0602 00



General Description

The ComStation^{PC} is a ward console for the nurse station, suitable for answering and handling calls and for supporting the care organisation.

Separate design of the control system and the operating unit. Designed as a PC workstation, ergonomically designed and equipped with all components required for operation. Operating unit intended for desktop installation.

The ComStation^{PC} supports the care organisation through the possibility of ward coupling and operation according to predefined shifts.

Equipment

- System computer (article no. 80 6010 00D)
- LCD monitor 19" (article no. 80 6049 00)
- Speech communication via desktop speech unit with integrated handset
- Interface to the system computer
- PrimusGlobal+ software "ComStation^{PC}" (article no. 77 0701 00)
- UPS 600 VA/360 W (article no. 21 9000 00)

Features

- **Call handling:**
 - Display of all calls and presences of the connected ward in a graphical representation of the ward (exceptions only for ward coupling or shift operation, see below)
 - Differentiation of call categories (calls, emergency calls, alarms) by flashing sequence and colours
 - In addition, acoustic differentiation of call categories through tone sequence
 - Distinction between fresh and answered calls
 - When the call is answered, the call type, location, bed identification are displayed
 - Automatic answering of the highest priority call or manual answering a self-selected call
 - Speech connection to the room or to the bed depending on the call device
 - Contact to staff by creating a speech connection to a room with presence switched on
- **Speech connections:**
 - Hands-free speech or discreet speech via handset
 - Speech connection status display: Privacy in the room on/off, privacy on ComStation on/off
- **Announcements:**
 - Announcement to all rooms and corridors of the ward
 - Announcement to all rooms in the ward with the presence of staff 1 or staff 2 switched on or independently of the staff group
 - Area announcement to a freely selectable area of the ward
 - Announcement to a specified area from a predefined list (list is predefined during system setup)
 - Announcement to several rooms in the ward with a reply option from rooms with presence switched on
- **Call:**
 - Call rooms in the connected ward
 - Call other ComStation on the ward
 - During ward coupling, additional call to the ComStations of the connected wards

- Call ManagementCenter (if available)
- **Ward coupling:**
A ward coupling is a number of wards within calls are forwarded and displayed on ComStations. Ward couplings that can be activated must be predefined using the SystemOrganizer configuration software
 - During ward coupling, display of all calls and presences of the coupled wards
 - Activate ward coupling by selecting from the list of predefined ward couplings
 - Deactivate a ward coupling
- **Shift operation:**
A zone is a part of the ward within which calls are forwarded and displayed on the ComStation. The division into zones can change. Each division of the ward into zones is called a "shift." Activatable shifts must be predefined using the SystemOrganizer configuration software. Zones can overlap, meaning that a ComStation can belong to several zones
 - During shift operation, display of all calls and presences in the zone to which this ComStation is assigned.
 - Activate a shift by selecting from the list of predefined shifts
 - Deactivate a shift

- **System safety through fault signalling:**
 - Display of nurse call system faults on the ward
 - Display when the connection between ComStation and the nurse call system has failed
 - Display when the speech unit of ComStation^{PC} failed

Interfaces

- OSYnet group bus and 24 DC power supply via connection socket ComStation^{PC} (article no. 77 0452 60 F)

To be ordered separately: Connection socket ComStation^{PC} (article no. 77 0452 60 F)

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

Article no.	Product name	Note
77 0602 00	ComStationPC	
Necessary accessories:		
77 0452 60 F	Connection socket ComStation ^{PC}	see separate data sheet
Software maintenance		
77 7142 10	Software maintenance: PrimusGlobal+ ComStation ^{PC} , one update per installed module	

ComStation^{BUS-C}

77 0605 50



General Description

The ComStation^{BUS-C} is a ward console for the nurse station, designed for answering and handling calls and to support care organisation.

The ComStation^{BUS-C} is equipped with microphone, loudspeaker and handset for speech communication. The ComStation^{BUS-C} is operated using select keys and navigation keys, supported by a colourgraphic multifunction display.

System messages and additional information can be displayed.

An intelligent speech processor ensures excellent speech quality and intelligibility for all operating modes.

The ComStation^{BUS-C} supports the nursing organisation through the possibilities of ward coupling and operation according to predefined shifts .

Equipment

- Plastic foil keypad
- Operation using select keys as soft keys

- 5.7 inch multi-functional colour display, resolution 640x480, LED illuminated
- Handset pluggable
- Output for staff presence
- Output for external call tone
- Desktop installation or wall mounting

Features

- **Call handling:**
 - Display of all calls and presences of the connected ward (exceptions only for ward coupling or shift operation, see below)
 - Display of calls in a list, ordered by priority as defined by the nurse call system. The highest priority call is at the top.
 - Display of presences in a list in chronological order. The oldest message is at the top.
 - Differentiation of call categories (calls, emergency calls, alarms) by flashing sequence and colours
 - In addition, acoustic differentiation of call categories through tone sequence
 - Distinction between fresh and answered calls
 - When the call is answered, the call type, location, bed identification are displayed
 - Speech connection to the room or to the bed depending on the call device
 - Contact to staff by creating a speech connection to a room with presence switched on
- **Speech connections:**
 - Hands-free speech or discreet speech via handset
 - Display of the status of the speech connection: Privacy in the room on/off
- **Announcements:**
 - Announcement to all rooms and corridors of the ward
 - Announcement to all rooms in the ward with the presence of staff 1 or staff 2 switched on or independently of the staff group
- **Call:**
 - Call rooms in the connected ward

- Call other ComStation on the ward
- During ward coupling, additional call to the ComStations of the connected wards
- Call ManagementCenter (if available)

- **Ward coupling:**

A ward coupling is a number of wards within calls are forwarded and displayed on ComStations. Ward couplings that can be activated must be predefined using the SystemOrganizer configuration software

- During ward coupling, display of all calls and presences of the coupled wards
- Activate ward coupling by selecting from the list of predefined ward couplings
- Deactivate a ward coupling

- **Shift operation:**

A zone is a part of the ward within which calls are forwarded and displayed on the ComStation. The division into zones can change. Each division of the ward into zones is called a "shift." Activatable shifts must be predefined using the SystemOrganizer configuration software. Zones can overlap, meaning that a ComStation can belong to several zones

- During shift operation, display of all calls and presences in the zone to which this ComStation is assigned.
- Activate a shift by selecting from the list of predefined shifts
- Deactivate a shift

- **System safety through fault signalling:**

- Display of nurse call system faults on the ward
- Display when the connection between ComStation and the nurse call system has failed

Interfaces

- OSYnet group bus and 24 DC power supply via connection socket ComStation (article no. 77 0452 30 F)

To be ordered separately: Connection socket ComStation (article no. 77 0452 30 F)

Technical data

Dimensions (HxWxD):	55 x 273 x 185 mm
Material of housing and handset:	ABS
Display material:	Polycarbonate
Material of the foil keys:	Polyester film with polyurethane
Spiral cable material:	Soft PVC or polyurethane
Housing colour:	RAL 7035, light grey
Power supply:	24 V DC
Quiescent current consumption:	230 mA

Article no.	Product name	Note
77 0605 50	ComStationBUS-C	
Necessary accessories:		
77 0452 30 F	Connection socket ComStation	see separate data sheet

ComStation^{CT} Flamenco , desktop installation

77 0606 00



General Description

Desktop terminal with duplex speech facility, designed for installation in the nurse station. Preferably for handling calls. It is possible to trigger calls or cardiac alarms (code blue) to request additional staff. Activating and deactivating ward coupling or shifts (zone nursing).

The operating front made of real glass meets the highest demands in terms of cleaning, operation and design.

The ComStation^{CT} Flamenco controls and monitors of all room functions in compliance with the German standard DIN VDE 0834.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Integrated user prompting with flexible and simple to use surface. The plus intuitive menu guidance and backlit display at the ComStation^{CT} Flamenco provide maximum user comfort.

Equipment

- Control panel made of real glass with integrated sensor buttons and display elements for easy and intuitive operation
- High-quality graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Desk installation in console form
- 2.5 m connection cable with strain relief
- Excellent voice quality through digital speech processing using DSP technology
- High-quality speakers and sensitive microphone
- Integrated configuration menu for system parameter setting
- Device language selectable by configuration
- Permanent power failure protection for all data
- Moisture-protected housing
- Closed, smooth surface, easy to clean and disinfect

Features

- **Basic features:**
 - Green presence button for staff 1 with reminder light
 - Yellow presence button for staff 2 with reminder light
 - Red call button with symbol, location light and reassurance light
 - Blue cardiac alarm button (code blue) with symbol, location and reassurance light, configurable
 - 4 function keys with context-sensitive function assignment
- **Call handling:**
 - When presence is switched on: display of the fresh call with the highest priority of the connected ward (exceptions only for ward coupling or shift operation, see below). Priority as defined by the nurse call system.
 - Display of call type, call location, bed identification
 - Additional acoustic signalling of the call category via tone sequence

- Call answering by pressing the corresponding function key
- Speech connection to the room or to the bed depending on the call device

- **Ward coupling:**

A ward coupling is a number of wards within calls are forwarded and displayed on ComStations. Ward couplings that can be activated must be predefined using the SystemOrganizer configuration software

- When ward coupling is active and presence is switched on: display of the fresh call with the highest priority of the connected wards. Priority as defined by the nurse call system.
- Activate ward coupling by selecting from the list of predefined ward couplings
- Deactivate a ward coupling

- **Shift operation:**

A zone is a part of the ward within which calls are forwarded and displayed on the ComStation. The division into zones can change. Each division of the ward into zones is called a "shift." Activatable shifts must be predefined using the SystemOrganizer configuration software. Zones can overlap, meaning that a ComStation can belong to several zones

- When working in shifts and when presence is switched on: display of the fresh call with the highest priority in your own zone. Priority as defined by the nurse call system.

- Activate a shift by selecting from the list of predefined shifts
- Deactivate a shift
- **System safety through fault signalling:**
 - Display of nurse call system faults on the ward

Interfaces

- OSYnet group bus and 24 DC power supply via connection socket ComStation (article no. 77 0452 30 F)

To be ordered separately: Connection socket ComStation (article no. 77 0452 30 F)

Technical data

Dimensions (HxWxD):	30 – 120 x 110 x 240 mm
Housing material:	ABS
Material of the operating front:	Real glass
Table base material:	Plexiglass
Housing colour:	White
Table base colour:	Transparent
Power supply:	24 V DC
Quiescent current consumption:	115 mA
Max. current consumption:	approx. 145 mA

Article no.	Product name	Note
77 0606 00	ComStationCT Flamenco , desktop installation	

Necessary accessories:

77 0452 30F	Connection socket ComStation	see separate data sheet
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ComStation^{CT} Flamenco, wall mounting

77 0606 10



General Description

Terminal with duplex speech facility, designed for installation in the nurse station. Preferably for handling calls. It is possible to trigger calls or cardiac alarms (code blue) to request additional staff. Activating and deactivating ward coupling or shifts (zone nursing).

The operating front made of real glass meets the highest demands in terms of cleaning, operation and design.

The ComStation^{CT} Flamenco controls and monitors of all room functions in compliance with the German standard DIN VDE 0834.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Integrated user prompting with flexible and simple to use surface. The plus intuitive menu guidance and backlit display at the ComStation^{CT} Flamenco provide maximum user comfort.

Equipment

- Control panel made of real glass with integrated sensor buttons and display elements for easy and intuitive operation
- High-quality graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Excellent voice quality through digital speech processing using DSP technology
- High-quality speakers and sensitive microphone
- Integrated configuration menu for system parameter setting
- Device language selectable by configuration
- Permanent power failure protection for all data
- Moisture-protected housing
- Closed, smooth surface, easy to clean and disinfect
- Integrated connection field
- Surface mounting over a 2-gang back box

Features

- **Basic features:**
 - Green presence button for staff 1 with reminder light
 - Yellow presence button for staff 2 with reminder light
 - Red call button with symbol, location light and reassurance light
 - Blue cardiac alarm button (code blue) with symbol, location and reassurance light, configurable
 - 4 function keys with context-sensitive function assignment
- **Call handling:**
 - When presence is switched on: display of the fresh call with the highest priority of the connected ward (exceptions only for ward coupling or shift operation, see below). Priority as defined by the nurse call system.

- Display of call type, call location, bed identification
- Additional acoustic signalling of the call category via tone sequence
- Call answering by pressing the corresponding function key
- Speech connection to the room or to the bed depending on the call device

- **Ward coupling:**

A ward coupling is a number of wards within calls are forwarded and displayed on ComStations. Ward couplings that can be activated must be predefined using the SystemOrganizer configuration software

- When ward coupling is active and presence is switched on: display of the fresh call with the highest priority of the connected wards. Priority as defined by the nurse call system.
- Activate ward coupling by selecting from the list of predefined ward couplings
- Deactivate a ward coupling

- **Shift operation:**

A zone is a part of the ward within which calls are forwarded and displayed on the ComStation. The division into zones can change. Each division of the ward into zones is called a "shift." Activatable shifts must be predefined using the SystemOrganizer configuration software. Zones can overlap, meaning that a ComStation can belong to several zones

- When working in shifts and when presence is switched on: display of the fresh call with the highest priority in your own zone. Priority as defined by the nurse call system.
- Activate a shift by selecting from the list of predefined shifts
- Deactivate a shift
- **System safety through fault signalling:**
- Display of nurse call system faults on the ward

Interfaces

- OSYnet group bus
- 24 V DC power supply
- RAN room bus for connection of further operating elements and signalling devices

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the operating front:	Real glass
Housing colour:	White
Power supply:	24 V DC
Quiescent current consumption:	115 mA
Max. current consumption:	approx. 145 mA

Article no.	Product name	Note
77 0606 10	ComStationCT Flamenco, wall mounting	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

ComStation^T Flamenco, desktop installation

77 0606 20



General Description

Desktop terminal without speech for installation in the nurse station. Preferably intended to display calls. It is possible to trigger calls or cardiac alarms (code blue) to request additional staff. Activating and deactivating ward coupling or shifts (zone nursing)

The ComStation^T Flamenco controls and monitors all room functions in accordance with the German standard DIN VDE 0834.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Integrated user prompting with flexible and simple to use surface. The plus intuitive menu guidance and backlit display at the ComStation^T provide maximum user comfort.

Equipment

- Closed control panel as a membrane keyboard with integrated indicators for easy and intuitive operation
- High-quality graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Desk installation in console form
- 2.5 m connection cable with strain relief

- Integrated configuration menu for system parameter setting
- Device language selectable by configuration
- Permanent power failure protection for all data

Features

- **Basic features:**
 - Green presence button for staff 1 with reminder light
 - Yellow presence button for staff 2 with reminder light
 - Red call button with symbol, location light and reassurance light
 - Blue cardiac alarm button (code blue) with symbol, location and reassurance light
 - 4 function keys with context-sensitive function assignment
- **Call handling:**
 - When presence is switched on: display of the fresh call with the highest priority of the connected ward (exceptions only for ward coupling or shift operation, see below). Priority as defined by the nurse call system.
 - Display of call type, call location, bed identification
 - Additional acoustic signalling of the call category via tone sequence
- **Ward coupling:**

A ward coupling is a number of wards within calls are forwarded and displayed on ComStations. Ward couplings that can be activated must be predefined using the SystemOrganizer configuration software

 - When ward coupling is active and presence is switched on: display of the fresh call with the highest priority of the connected wards. Priority as defined by the nurse call system.
 - Activate ward coupling by selecting from the list of predefined ward couplings
 - Deactivate a ward coupling
- **Shift operation:**

A zone is a part of the ward within which calls are forwarded and displayed on the ComStation. The division into zones can change. Each division of the ward into zones is called a "shift." Activatable shifts must be predefined using the SystemOrganizer configuration software. Zones can overlap, meaning that a ComStation can belong to several zones

- When working in shifts and when presence is switched on: display of the fresh call with the highest priority in your own zone. Priority as defined by the nurse call system.
- Activate a shift by selecting from the list of predefined shifts
- Deactivate a shift
- **System safety through fault signalling:**
 - Display of nurse call system faults on the ward

Interfaces

- Connection to OSYnet group bus and 24 V DC power supply via Connection socket ComStation

To be ordered separately: Connection socket ComStation (article no. 77 0452 30 F)

Technical data

Dimensions (HxWxD):	30 – 120 x 110 x 240 mm
Housing material:	ABS
Material of the operating front:	Polyester
Material of the key caps:	Polyurethane (PU)
Display material:	Cast PMMA
Table base material:	Plexiglass
Housing colour:	White
Table base colour:	Transparent
Power supply:	24 V DC
Quiescent current consumption:	52 mA
Max. current consumption:	approx. 92 mA

Article no.	Product name	Note
77 0606 20	ComStationT Flamenco, desktop installation	
Necessary accessories:		
77 0452 30 F	Connection socket ComStation	see separate data sheet

ComStation^T Flamenco, wall mounting

77 0606 30



General Description

Terminal without speech for installation in the nurse station. Preferably intended to display calls. It is possible to trigger calls or cardiac alarms (code blue) to request additional staff. Activating and deactivating ward coupling or shifts (zone nursing).

The ComStation^T Flamenco controls and monitors all room functions in accordance with the German standard DIN VDE 0834.

In the event of system faults, the basic functions continue to be available independently in the room as long as the power supply is available. This ensures the highest level of operational reliability.

Integrated user prompting with flexible and simple to use surface. The plus intuitive menu guidance and backlit display at the ComStation^T provide maximum user comfort.

Equipment

- Closed control panel as a membrane keyboard with integrated indicators for easy and intuitive operation
- High-quality graphic display, backlit, 128x64 dot matrix, for displaying calls and information messages
- Integrated configuration menu for system parameter setting
- Device language selectable by configuration
- Permanent power failure protection for all data
- Integrated connection field
- Surface mounting over a 2-gang back box

Features

- **Basic features:**
 - Green presence button for staff 1 with reminder light
 - Yellow presence button for staff 2 with reminder light
 - Red call button with symbol, location light and reassurance light
 - Blue cardiac alarm button (code blue) with symbol, location and reassurance light
 - 4 function keys with context-sensitive function assignment
- **Call handling:**
 - When presence is switched on: display of the fresh call with the highest priority of the connected ward (exceptions only for ward coupling or shift operation, see below). Priority as defined by the nurse call system.
 - Display of call type, call location, bed identification
 - Additional acoustic signalling of the call category via tone sequence
- **Ward coupling:**

A ward coupling is a number of wards within calls are forwarded and displayed on ComStations. Ward couplings that can be activated must be predefined using the SystemOrganizer configuration software

 - When ward coupling is active and presence is switched on: display of the fresh call with the

highest priority of the connected wards. Priority as defined by the nurse call system.

- Activate ward coupling by selecting from the list of predefined ward couplings
- Deactivate a ward coupling

• **Shift operation:**

A zone is a part of the ward within which calls are forwarded and displayed on the ComStation. The division into zones can change. Each division of the ward into zones is called a "shift." Activatable shifts must be predefined using the SystemOrganizer configuration software. Zones can overlap, meaning that a ComStation can belong to several zones

- When working in shifts and when presence is switched on: display of the fresh call with the highest priority in your own zone. Priority as defined by the nurse call system.
 - Activate a shift by selecting from the list of predefined shifts
 - Deactivate a shift
- **System safety through fault signalling:**

- Display of nurse call system faults on the ward

Interfaces

- OSYnet group bus
- 24 V DC power supply
- RAN room bus for connection of further operating elements and signalling devices

Technical data

Dimensions (HxWxD):	205 x 110 x 34 mm
Housing material:	ABS
Material of the operating front:	Polyester
Material of the key caps:	Polyurethane (PU)
Display material:	Cast PMMA
Housing colour:	White
Power supply:	24 V DC
Quiescent current consumption:	38 mA
Max. current consumption:	approx. 78 mA

Article no.	Product name	Note
77 0606 30	ComStationT Flamenco, wall mounting	

Necessary accessories:

17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"

ManagementCenter^{PC}

77 0610 00



General Description

Management Center^{PC} is a central console for nurse call systems of the Flamenco system family. It is used to centrally process all functions of the nurse call system.

Separate design of the control system and the operating unit. Designed as a PC workstation, ergonomically designed and equipped with all components required for operation. Operating unit intended for desktop installation.

Equipment

- System computer (article no. 80 6010 00D)
- LCD monitor 19" (article no. 80 6049 00)
- Speech communication via desktop speech unit with integrated handset
- Interface to the system computer
- PrimusGlobal+ software "ManagementCenter^{PC}" (article no. 77 0700 00)
- UPS 600 VA/360 W (article no. 21 9000 00)

Features

- **Call handling:**
 - Display of all calls and presences of the connected nurse call system in floor plans or simplified graphics .
- **Operating mode control:**
 - Setting wards to decentralised mode (call handling on the ward) or centralised mode (call handling at the Management Center).

- Differentiation of call categories (calls, emergency calls, alarms) by flashing sequence and colours
- In addition, acoustic differentiation of call categories through tone sequence
- Distinction between fresh and answered calls
- When the call is answered, the call type, location, bed identification are displayed
- Automatic answering of the highest priority call or manual answering a self-selected call
- Speech connection to the room or to the bed depending on the call device
- Contact staff on the ward by establishing a speech connection to a room with presence switched on
- **Speech connections:**
 - Hands-free speech or discreet speech via handset
 - Display of the status of the speech connection: Privacy in the room on/off,
- **Announcements:**
 - Announcements to all rooms and corridors of the connected nurse call system
 - Announcement to all rooms and corridors of a ward
 - Announcement to all rooms of the connected nurse call system with the presence of staff 1 or staff 2 switched on or independent of the staff group
 - Announcement to all rooms in a ward with the presence of staff 1 or staff 2 switched on or independent of the staff group
 - Area announcement to a freely selectable area of the connected nurse call system (selected rooms, wards or floors)
 - Announcement to a specified area from a predefined list (list is predefined during system setup)
 - Announcement to several rooms in a ward with a replay option from rooms with presence switched on

- **Coupling of wards that operate in decentralised mode:**
A ward coupling is a number of wards within calls are forwarded and displayed on ComStations. Ward couplings that can be activated must be predefined using the SystemOrganizer configuration software
 - During ward coupling, display of all calls and presences in all coupled wards
 - Activate ward coupling by selecting from the list of predefined ward couplings
 - Deactivate a ward coupling
- **System safety through fault signalling:**
 - Display of nurse call system faults
 - Display when the connection between the ManagementCenter and the nurse call system has failed
 - Display when the ManagementCenter speech unit has failed
- **Call logging:**
 - Permanent logging all system events
 - Selection of locations to be analysed (wards, rooms, etc.)
 - Filtering data by time of event
 - Filtering data by event type (calls, presences, other events)
 - Filtering data based on actions taken

- Selecting the parameters to display
- Sorting the data to be displayed according to various criteria
- Print function
- Export function to standard office packages in CSV format

Interfaces

In systems with IP-SystemManagers 2 or IP-SystemManagers as control units, the ManagementCenter^{PC} is pre-equipped for connection to a separate IP-SystemManager/IP-SystemManager 2 with the VOIP GATE function module and the IP network of the nurse call system. IP-SystemManager or IP-SystemManager 2 and VOIP Gate function module must be ordered separately.

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- **New features:** Extensions that add useful features to your software.
- **Performance improvements:** Optimisations for faster and more stable execution.
- **Increased security:** Protection against current threats by integrating the latest security standards.

Article no.	Product name	Note
77 0610 00	ManagementCenterPC	
Necessary accessories:		
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.
76 0743 00	Function module VOIP GATE	see separate data sheet
Required services, order separately:		
77 0790 00	PrimusGlobal+ System set-up & configuration	
77 0790 01	PrimusGlobal+ project data, block graphics	
77 0790 02	PrimusGlobal+ project data, layout graphics	
Software maintenance		
77 7141 10	Software maintenance: PrimusGlobal+ ManagementCenter, one update per installed module	

Connection socket ComStation

77 0452 30 F



- Prepared for 15 pole plug with mechanical locking mechanism
- Connection unit insert, 15 pole, complete with PCB and plug-in terminals
- 4 plug-in terminals for the connection of the 24 V power supply, wire cross section up to 2.5 mm²
- 1 central plate with cut-out
- 1 central plate, blank
- 1 cover frame, 2-gang
- Plug-in terminals for solid wire of \varnothing 0.55 – 1 mm

General Description

Data socket for connection of one of the following devices: ComStation^{BUS-C}, ComStation^{BUS-SE}, ComStation^{CT} Flamenco, ComStation^T Flamenco, ComTerminal Flamenco desktop installation, Room-Terminal Flamenco desktop installation.

Suitable for 2-gang back boxes.

Intended for wall mounting.

Specification

- 15 pole socket as data socket

Technical data

Dimensions (HxWxD):	80 x 151 x 79 mm
Installation depth:	30 mm
Housing material:	Polycarbonate
Housing colour:	Studio white, similar to RAL 9016
Power supply:	24 V DC
Contact load:	max. 3 A
Current consumption:	0 mA

Article no.	Product name	Note
77 0452 30 F	Connection socket ComStation	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"
Optional accessories:		
77 0210 61	Surface mounting box 2-gang for frames A, F	

Connection socket ComStation^{PC}

77 0452 60 F



- 25-pin Sub-D socket, V.24
- Connection unit insert, 15 pole, complete with PCB and plug-in terminals
- 4 plug-in terminals for the connection of the 24 V power supply, wire cross section up to 2.5 mm²
- 1 central plate with cut-out
- 1 central plate with Sub-D socket
- 1 cover frame, 2-gang
- Plug-in terminals for solid wire of \varnothing 0.55 – 1 mm

General Description

Data socket for connection of a ComStation^{PC} or a ComStation^{SE}.

Suitable for 2-gang back boxes.

Intended for wall mounting.

Specification

- 15 pole socket as data socket
- Prepared for 15 pole plug with mechanical locking mechanism

Technical data

Dimensions (HxWxD): 80 x 151 x 55 mm

Installation depth: 30 mm

Housing material: Polycarbonate

Housing colour: Studio white, similar to RAL 9016

Power supply: 24 V DC

Contact load: max. 3 A

Current consumption: 0 mA

Article no.	Product name	Note
77 0452 60 F	Connection socket ComStationPC	
Necessary accessories:		
17 0410 00	Back box solid wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box partition wall, 2-gang	see appendix "Accessories"
Optional accessories:		
77 0210 61	Surface mounting box 2-gang for frames A, F	

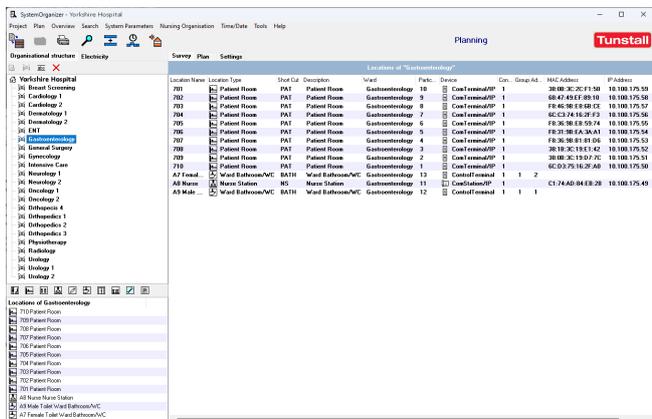
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SystemOrganizer

77 0750 00



- Floor plans as a screenshot directly from the screen
- Importing existing graphics as floor plans (jpg, jpeg, bmp, gif)
- Selection of predefined room types
- Free labelling of room numbers and names
- Easy to use with drag-and-drop
- Guided planning process
- Printable overviews of the buildings, wards, rooms created

Operating

- Interactive and user-guided operation
- 5 user levels, password protection
- 2 display levels (electrical, organisational structure)
- Access to all system and project data via tree structure
- Organisation of several projects and archiving of data
- Read out the project configuration in the current project, display the existing configuration
- Plausibility check when entering data

Configuration

- Set the date and time of the system
- Hierarchical structuring of buildings, wards and rooms
- Assignment of addresses to rooms and peripheral devices
- Names and room numbers for rooms, wards, buildings, etc.
- Setting call types and system messages
- Signaling options, such as sound and flash sequences
- Call processing parameters, such as call types, call categories, call cancellation, privacy
- Organisational assignment of rooms (locations) to wards, shifts, etc.
- Defining ward couplings (not with Flamenco SECURE)
- Parameterisation of escalation procedures for call processing

General Description

The SystemOrganizer software is a planning and configuration tool for the Flamenco system family. It provides the user interface for controlling the nurse call system and enables the entire parameterisation of the nurse call system

The operation and division of system settings follows the basic principle of Flamenco. The physical parameters are strictly separated from the organisational assignments

Access is password-protected via 5 different user levels. This ensures that, from planning offices to care management, each group of users can only make the settings that are important to them.

Even during planning, the SystemOrganizer is used to record the project structures of buildings, wards and rooms. All parameters can be changed at any time and adapted to the respective requirements.

By using the data from the start of planning to the entire life cycle of the system, there is no need for double data maintenance at any time. All data can be copied, saved and read from the nurse call system. This ensures that the currently valid data can be accessed at any time.

System planning

- Construction of the basic structure of buildings, wards, rooms
- Floor plan-orientated presentation

- Management of interfaces to external systems
- Management of mobile telephony devices (DECT/pagers/WLAN) (not with Flamenco SECURE)
- Setting all system parameters, including management of integrated networks and IP addresses

Requirements

- Operating system: Microsoft Windows 11, Windows 10 (32 Bit, 64 Bit)
- 100 Mbit LAN access
- "SystemOrganizer" software training

Article no.	Product name	Note
77 0750 00	SystemOrganizer	
Required training, order separately:		
98 0006 17	"SystemOrganizer" software training for Flamenco system family	Successful completion of the training is a mandatory prerequisite for using the SystemOrganizer.
98 0007 23	"SystemOrganizer" software training for Flamenco SECURE system	Successful completion of the training is a mandatory prerequisite for using the SystemOrganizer.

Call logging Flamenco, complete set

50 1027 00, 50 1027 10



General Description

The complete set call logging Flamenco is used to support care documentation in nurse call systems of the Flamenco system family. All call data, staff presences and system events are logged. The data is stored with time, date and corresponding information about the origin of the data, such as ward and room.

Filtering and sorting of data can be selected for numerous combinations of criteria. For succeeding post-processing and analysis there is an export function to convenient office applications.

Connection to the nurse call system's IP network.

Equipment

- System computer (article no. 80 6010 00D)

- LCD monitor 19" (article no. 80 6049 00)
- PrimusGlobal+ "Call logging" (article no. 77 0710 00)
- UPS 600 VA/360 W (article no. 21 9000 00)

Features

- Permanent logging all system events
- Selection of locations to be analysed (wards, rooms, etc.)
- Filtering data by time of event
- Filtering data by event type (calls, presences, other events)
- Filtering data based on actions taken
- Selecting the parameters to display
- Sorting the data to be displayed according to various criteria
- Print function
- Export function to standard office packages in CSV format

Note on software maintenance

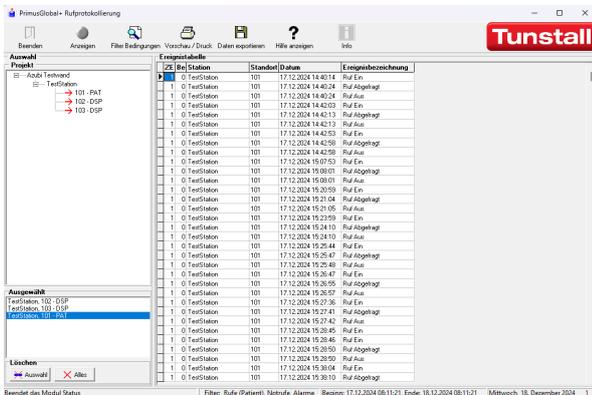
Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

Article no.	Product name	Note
50 1027 00	Call logging Flamenco, complete set, language: German	
50 1027 10	Call logging Flamenco, complete set, language: English	
Product variants:		
50 1027 02	Call logging Flamenco, complete set with 19" rack PC	
Software maintenance		
77 7143 10	Software maintenance: PrimusGlobal+ call recording, one update per installed module	

Call logging Flamenco, VM

50 1027 03



General Description

Call logging Flamenco, VM is used to support care documentation in nurse call systems of the Flamenco system family. All call data, staff presences and system events are recorded. The data is stored with time, date and corresponding information about the origin of the data, such as ward and room.

Filtering and sorting of data can be selected for numerous combinations of criteria. For succeeding post-processing and analysis there is an export function to convenient office applications.

Software to be installed as a virtual machine in a server environment.

Tunstall installs the software via remote maintenance access on the corresponding server. There are further costs for this service, which are charged according to the amount of work involved.

Features

- Permanent logging all system events
- Selection of locations to be analysed (wards, rooms, etc.)
- Filtering data by time of event
- Filtering data by event type (calls, presences, other events)
- Filtering data based on actions taken
- Selecting the parameters to display
- Sorting the data to be displayed according to various criteria
- Print function
- Export function to standard office packages in CSV format

Note on software maintenance

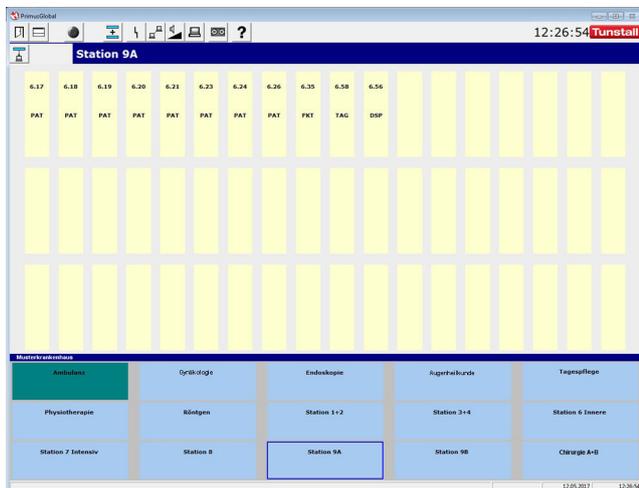
Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

Article no.	Product name	Note
50 1027 03	Call logging Flamenco, VM	
Software maintenance		
77 7143 10	Software maintenance: PrimusGlobal+ call recording, one update per installed module	

PrimusGlobal function module “Building Services”

45 1400 00



General Description

The Building Services function module of the PrimusGlobal+ software family supports hospital technicians. It provides an information service to display all system events from the nurse call system. The events are presented in block graphics on graphical interfaces .

Specification

- Take-over and display of data from the nurse call system
- Visualisation in block graphics
- Parallel display of messages, system states and fault messages

System requirement

Existing installation of PrimusGlobal+ “Call Recording”, e.g. in the form of “Call Recording Flamenco, complete set”

Note on software maintenance

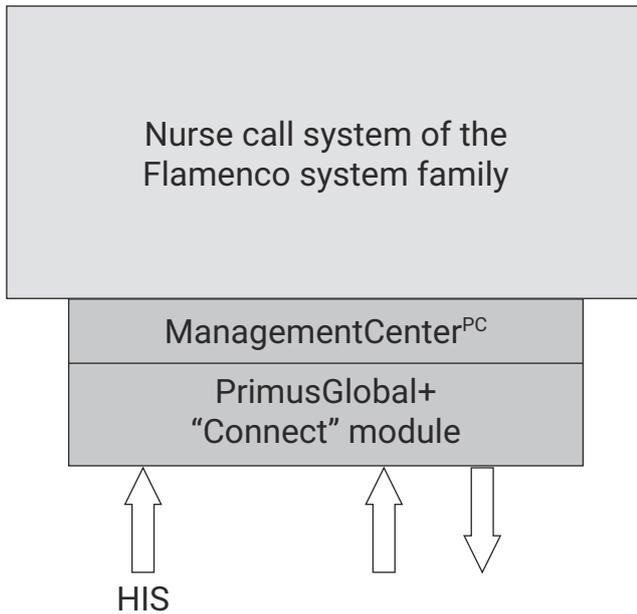
Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

Article no.	Product name	Note
45 1400 00	PrimusGlobal function module “Building Services”	
System requirement, order separately:		
50 1027 00	Call logging Flamenco, complete set	see separate data sheet
50 1027 03	Call logging Flamenco, VM	see separate data sheet
Product variants:		
77 0721 01	PrimusGlobal+ Building Services WIN VM (OVF image)	
Required services, order separately:		
77 0790 01	PrimusGlobal+ project data, block graphics	

PrimusGlobal+ “Connect” module

77 0720 00



Depending on the respective application, appropriate system drivers are used (to be ordered separately).

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

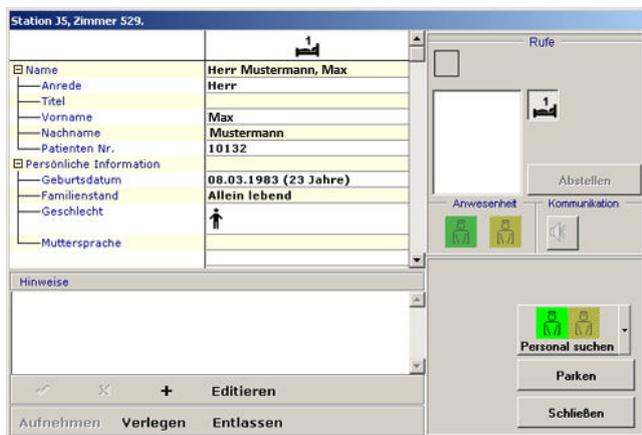
General Description

The PrimusGlobal+ “Connect” module is a software module to complement PrimusGlobal+ “Management-Center”. The “Connect” module provides interfaces to other systems, such as hospital information system.

Article no.	Product name	Note
77 0720 00	PrimusGlobal+ “Connect” module	
System drivers, order separately:		
77 0720 01	PrimusGlobal+ system driver HL7	see separate data sheet
Software maintenance		
77 7144 10	Software maintenance: PrimusGlobal+ Connect module, one update per installed module	

PrimusGlobal+ system driver HL7

77 0720 01



The desired information is selected in close consultation with the customer. Support for various transfer protocols and transfer methods is possible. Depending on the effort involved, additional costs may be required for adaptation developments. The calculation is carried out after the specification has been completed.

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

General Description

The HL7 system driver supplements the "Connect" module. The HL7 system driver provides the connection between the hospital information system (HIS) and the Management Center.

Defined data fields from the HL7 data set are taken over and are available for further display at the ManagementCenter.

Article no.	Product name	Note
77 0720 01	PrimusGlobal+ system driver HL7	
Software maintenance		
77 7145 10	Software maintenance: PrimusGlobal+ system driver HL7, one update per installed module	

9. System add-ons

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Door entry speaker 2

77 0351 00



General Description

Door entry speaker for convenient speech connection between front door and nurse call system.

Suitable for indoor and outdoor installation.

Specification

- High-quality housing with elegant glass panel, 6 mm shatterproof glass, white finish
- Large call button
- Label field illumination with maintenance-free LED technology
- Excellent speech quality
- Flat design with only 28 mm height

- Direct connection to OSYlink-Door entry speaker 2 (article no. 77 0801 10) via 2-wire connection
- Control of door opener
- Separation between door opener and nurse call system with 2 x MOPP according to EN 60601-1.

Door opener requirements

- Operating current type
- Rated operating voltage: 8 – 24 V DC
- Max. current consumption: 200 mA
- DC resistance: min. 42 Ohm

Technical data

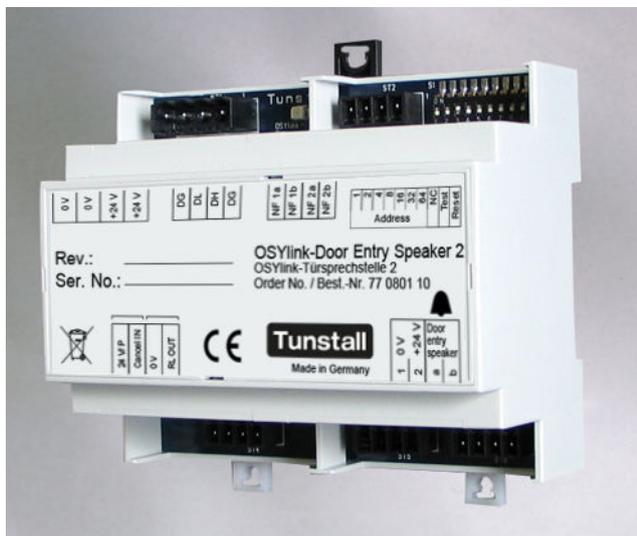
Dimensions (HxWxD):	220 x 138 x 28 mm
Weight:	approx. 750 g
Front panel material:	Shatterproof glass, 6 mm thick
Subshell material:	Plastic
Ingress protection code:	IP44
Power supply:	24 V DC from OSYlink-Door entry speaker 2

Current consumption of OSYlink-Door entry speaker 2 + Door entry speaker 2 + Door opener:	
- Quiescent current consumption:	80 mA
- During speech connection:	130 mA
- Max. current consumption, during door opener actuation:	400 mA
Contact load capacity door opener:	max. 200 mA, min. 42 Ω
Ambient temperature:	-20 °C to +50 °C
Relative humidity:	non-condensing

Article no.	Product name	Note
77 0351 00	Door entry speaker 2	
Necessary accessories:		
77 0801 10	OSYlink-Door entry speaker 2	see separate data sheet
Optional accessories:		
00 0276 53	ESD protection cover "short"	see appendix "Accessories"
19 0709 00 + 19 9201 06 + 19 9200 06	Cancel switch	For external call cancellation (option)
Spare parts:		
00 0182 82	Call button insert with bell symbol	

OSYlink-Door entry speaker 2

77 0801 10



General Description

Interface for connection of a door entry speaker 2 (article no. 77 0351 00) to the OSYnet group bus.

NOTE! Not suitable as a spare part for OSYlink-Door entry speaker, article no. 77 0801 00.

Specification

- 2-wire connection to the door entry speaker 2 (data and speech)
- Mounting on wall or top-hat rail (35 x 7.5 mm), side-by-side mountable
- Output short-circuit and overload protected
- Input for an external switch for call cancellation

Technical data

Dimensions (HxWxD):	90 x 106 x 58 mm
Housing material:	Polycarbonate
Ingress protection code:	IP20
Power supply:	24 V DC
Current consumption:	See datasheet for Door entry speaker 2

Article no.	Product name	Note
77 0801 10	OSYlink-Door entry speaker 2	
Optional accessories:		
00 0276 53	ESD protection cover "short"	see appendix "Accessories"

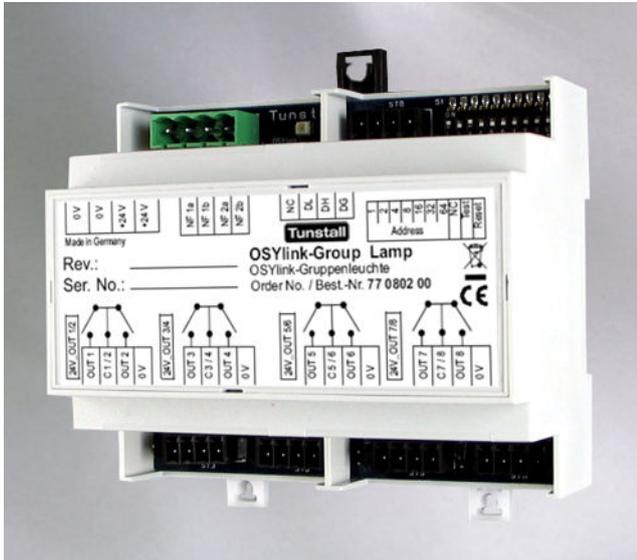
10. Interfaces

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OSYlink-Group lamp

77 0802 00



General Description

Interface for connecting group lamps to the OSYnet group bus. Can be used as a collection or direction indicators. Room assignment and group formation are possible.

Specification

- 4 x 2 potential-free outputs to connect 4 group lamps with 2 light sections each
- Power supply selectable (jumper) internally from the nurse call system or externally
- Signalling according to the German standard DIN VDE 0834, centrally configurable (SystemOrganizer)
- Central, flexible configuration of flashing sequences and assignment of user addresses
- Mounting on wall or top-hat rail (35 x 7.5 mm), side-by-side mountable
- Outputs short-circuit and overload protected

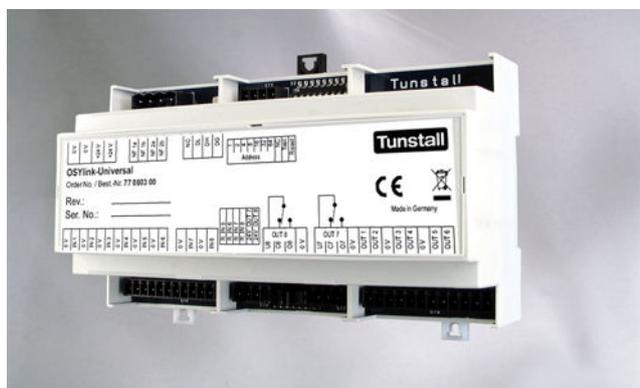
Technical data

Dimensions (HxWxD):	90 x 106 x 58 mm
Housing material:	Polycarbonate
Ingress protection code:	IP20
Power supply:	24 V DC
Max. current consumption:	230 mA

Article no.	Product name	Note
77 0802 00	OSYlink-Group lamp	
Optional accessories:		
00 0276 53	ESD protection cover "short"	see appendix "Accessories"

OSYlink-Universal

77 0803 00



- 4 solid state outputs, configurable:
 - Collective output Calls
 - Collective output Emergency calls
 - Collective output Cardiac alarms (code blue)
- 2 solid state outputs, can be configured
- 1 output with location light feature, configurable (functionally associated to one input)
- 2 potential free outputs, configurable (change-over contact, voltage source selectable by jumper)
- Central, flexible configuration of the outputs (SystemOrganizer)
- Mounting on wall or top-hat rail (35 x 7.5 mm), side-by-side mountable
- Outputs short-circuit and overload protected

General Description

Interface for connecting external systems and/or technical installations to the OSYnet group bus.

Specification

- 4 monitored inputs:
 - 2 x Call
 - 1 x Emergency call
 - 1 x Cardiac alarm (code blue)
- 1 input: collective announcement (all wards)
- 1 input: collective announcement (all presences)
- 1 input „Initiate call and 1 associated input „Cancel call“

Technical data

Dimensions (HxWxD):	90 x 160 x 58 mm
Housing material:	Polycarbonate
Ingress protection code:	IP20
Power supply:	24 V DC
Quiescent current consumption (all outputs OFF):	40 mA
Max. current consumption (all outputs ON):	100 mA

Article no.	Product name	Note
77 0803 00	OSYlink-Universal	
Optional accessories:		
00 0276 54	ESD protection cover "long"	see appendix "Accessories"

OSYlink-Announcement L

77 0804 00



General Description

Interface for connecting 100 V audio amplifiers to the OSYnet group bus. Connection as a single device or in groups.

Level low.

Specification

- 1 audio output for driving audio amplifiers

- 1 potential-free digital output to control the activation
- **Low level**
- Mounting on wall or top-hat rail (35 x 7.5 mm), side-by-side mountable
- Output short-circuit and overload protected

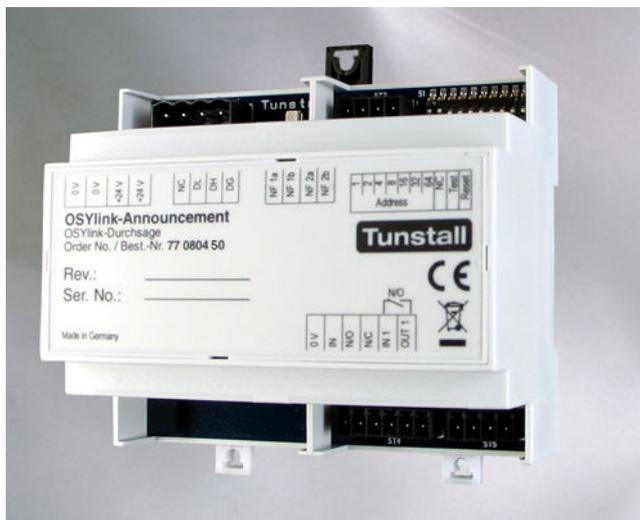
Technical data

input voltage:	100 mVpp / 35 mVeff
Input impedance:	600 Ω
Max. input voltage:	5 Vpp
Amplification (1 kHz):	1 dB
Max output voltage:	6 Vpp at 2 kΩ
Output Impedance:	< 100 Ω
Dimensions (HxWxD):	90 x 106 x 58 mm
Housing material:	Polycarbonate
Ingress protection code:	IP20
Power supply:	24 V DC
Quiescent current consumption:	32 mA
Max. current consumption:	60 mA

Article no.	Product name	Note
77 0804 00	OSYlink-Announcement L	
Optional accessories:		
00 0276 53	ESD protection cover "short"	see appendix "Accessories"

OSYlink-Announcement H

77 0804 50



General Description

Interface for connecting 100 V audio amplifiers to the OSYnet group bus. Connection as a single device or in groups.

Level high.

Specification

- 1 audio output for driving audio amplifiers

- 1 potential-free digital output to control the activation
- **High level**
- Mounting on wall or top-hat rail (35 x 7.5 mm), side-by-side mountable
- Output short-circuit and overload protected

Technical data

input voltage:	100 mVpp / 35 mVeff
Input impedance:	600 Ω
Max. input voltage:	1.7 Vpp
Amplification (1 kHz):	14 dB
Max output voltage:	8 Vpp at 2 kΩ
Output Impedance:	< 100 Ω
Dimensions (HxWxD):	90 x 106 x 58 mm
Housing material:	Polycarbonate
Ingress protection code:	IP20
Power supply:	24 V DC
Quiescent current consumption:	32 mA
Max. current consumption:	60 mA

Article no.	Product name	Note
77 0804 50	OSYlink-Announcement H	
Optional accessories:		
00 0276 53	ESD protection cover "short"	see appendix "Accessories"

OSYlink AS-CCS

77 0870 00



General Description

Interface for the compatible connection of a ward's ComTerminals from an old EccoLine with speech system to the Flamenco system family.

OSYlink AS-CCS converts the data and speech signals from the EccoLine system into compatible signals for the Flamenco family of systems. This makes it possible to operate individual wards with EccoLine together in a Flamenco system environment in a compatible way.

The bus cable to which the ComTerminals are connected, i.e. the CCS bus, is connected to the OSYlink AS-CCS interface module.

It should be noted that only the ComTerminals and the room peripherals of the old EccoLine system with speech can continue to be used. All other system components, such as call handling consoles, must be replaced by solutions from the Flamenco system family.

Intended for installation in ward distribution cabinets or installation rooms.

Important notes

- Existing projects are often complex in structure (project history, customized solutions, existing cabling, etc.) That's why the functionality has to be checked in case of using the OSYlink AS-CCS for each single project.

Specification

- Data and speech connection to OSYnet
- Data and speech connection to the CCS bus
- Conversion of all necessary system functions
- System configuration via OSYnet (SystemOrganizer)
- Operation and function indicators
- Plug-in connections
- 24 V power supply from ward power supply unit
- Mounting on wall or top-hat rail (35 x 7.5 mm), side-by-side mountable

Technical data

Dimensions (HxWxD):	90 x 160 x 58 mm
Housing material:	Polycarbonate
Ingress protection code:	IP20
Power supply:	24 V DC
Max. current consumption:	90 mA

Article no.	Product name	Note
77 0870 00	OSYlink AS-CCS	
Optional accessories:		
00 0276 54	ESD protection cover "long"	see appendix "Accessories"

RAN interface universal

70 0848 00



General Description

Interface for connecting external actuators being controlled by an ePAT® lite or by a Patient handset, e.g. blinds up/down. Transfer of the signals in conjunction with Connection socket combi, bedhead unit MAG (article no. 70 0437 00), Connection socket combi (article no. 70 0425 00, 70 0424 00) or Connection socket combi, bedhead unit (article no. 70 0435 00, 70 0434 00).

Specification

- 2 potential-free normally open contacts
- Maximum contact load: 60 mA / 24 V 60 mA / 24 V.
- Control by one or all ePAT® lite or Patient handsets in the room
- Connection to the RAN room bus.
- Mounting on a top-hat rail (35 x 7.5 mm)

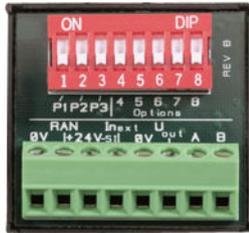
Technical data

Dimensions (HxWxD):	76 x 72 x 41 mm
Power supply:	24 V DC
Quiescent current consumption:	12 mA
Max. current consumption:	12 mA plus max. current consumption of the relay used (e.g. 40 mA)

Article no.	Product name	Note
70 0848 00	RAN interface universal	

RAN interface

77 0840 00



General Description

Interface for connecting external devices to the RAN room bus.

A top-hat rail clip for top-hat rail mounting is included with the RAN interface.

Potential applications

- **External call device initiates the call type “Call”:**
 - Call button as normally closed or normally open contact
 - Minimum switching current for the button: 0.1 mA, 5 V DC
 - Bed number can be set
 - Mode of call cancellation can be configured: Call cancelling within the nurse call system or automatically, when the call device is reset.
 - Location light can be connected ($I_{\max} = 0.5 \text{ mA}$). When a call is initiated, it is on with a bright light as reassurance light.
- **External call device initiates the call type “Cardiac alarm”:**
 - Alarm button as normally closed or normally open contact
 - Minimum switching current for the button: 0.1 mA, 5 V DC
 - Bed number can be set
 - Mode of alarm cancellation can be configured: Alarm cancelling within the nurse call system or automatically, when the call device is reset.
- Location light can be connected ($I_{\max} = 0,5 \text{ mA}$). When a cardiac alarm is initiated, it is on with a bright light as reassurance light.
- **External call device initiates the call type “WC call”:**
 - WC call button as normally closed or normally open contact
 - Minimum switching current for the button: 0.1 mA, 5 V DC
 - A channel number can be assigned to form functional units.
 - Location light can be connected ($I_{\max} = 0,5 \text{ mA}$). When a WC call is initiated, it is on with a bright light as reassurance light.
- **External presence switch for staff presence 1:**
 - Presence button as normally closed or normally open contact
 - Minimum switching current for the button: 0.1 mA, 5 V DC
 - A channel number can be assigned to form functional units.
- **TV set is controlled using an ePAT® lite or a Patient handset:**
 - Using ePAT® lite or Patient handset in conjunction to Connection socket combi, bedhead unit MAG (article no. 70 0437 00), Connection socket combi (article no. 70 0425 00, 70 0424 00) or Connection socket combi, bedhead unit (article no. 70 0435 00, 70 0434 00), patient television can be controlled.

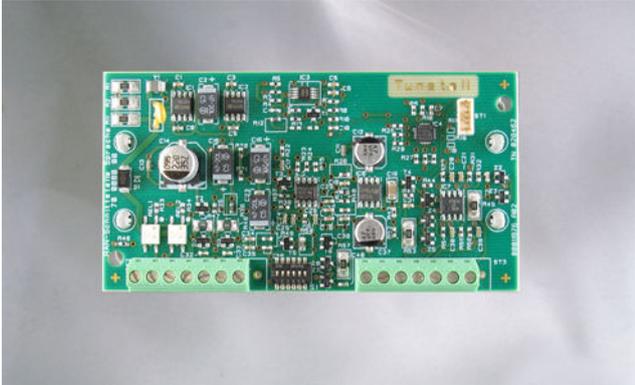
Technical data

Dimensions (HxWxD):	32 x 34 x 16 mm (without top-hat rail clip)
Weight:	13 g (without top-hat rail clip)
Power supply:	24 V DC
Quiescent current consumption:	8 mA
Max. current consumption:	10 mA

Article no.	Product name	Note
77 0840 00	RAN interface	

RAN interface for external call device

77 0881 00



2 mounting clips for mounting on top-hat rail are included.

Specification

- Interface to the RAN room bus
- Identification for up to 6 beds
- DIP switch for setting the bed number
- Input for monitored connection of a call button
- Output for connecting the reassurance light with location light function
- Top-hat rail installation, e.g. in the medical supply unit

General Description

The RAN interface is used to connect the call function of a patient operating device from a third-party manufacturer to the RAN room bus of a nurse call system from the Flamenco system family.

Use of a patient operating device only after approval by Tunstall GmbH.

Technical data

Dimensions (HxWxD):	13 x 51 x 95 mm (without mounting clips)
Weight:	28 g (without mounting clips)
Power supply:	24 V DC

Article no.	Product name	Note
77 0881 00	RAN interface for external call device	

11. System control (hardware and software)

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IP-SystemManager 2

76 2101 00



General Description

Second generation IP-SystemManager for increased efficiency and future-proofing.

IP-SystemManager 2 is a decentralised control unit for operating a Flamenco^{IP+}, Flamenco^{IP} nurse call System or Flamenco SECURE call system for one organisational group.

Important note about compatibility with other control units in a common system. The following control units can be operated with IP-SystemManager 2, article no. 76 2101 00 in a nurse call system:

- IP-SystemManager 2, article no. 76 2101 00
- IP-SystemManagers, article no. 76 2100 00, if these have previously been updated to the firmware of IP-SystemManager 2 by Tunstall for a fee.

Incompatibility: A connection to an OSY ControlCenter or OSY ControlCenter^{SE} is not possible.

The number of required IP-SystemManagers 2 for one complete system depends on the number of wards and required central interfaces. The project-specific system design and determination of the necessary components take place during project planning.

All IP-SystemManagers 2 are equipped with the same hardware. Their functional differences result from the installed software (system module, function module) and a project-specific configuration.

Several IP-SystemManagers 2 are networked via an IP network (LAN). One IP-SystemManager 2 in the system manages and coordinates cross-ward functions such as ward coupling (not with Flamenco SECURE), speech communication and superordinate system messages.

System and function modules

Various system and function modules are available for installation on the IP-SystemManagers 2 - from basic functions up to complex interfaces. Single modules can be added and the system can be expanded at any time.

The software modules are not part of the IP-SystemManager product. They must be purchased separately.

For safety reasons, an additional IP-SystemManager 2 is needed for connecting fire alarm systems to a Flamenco^{IP+} or a Flamenco^{IP} nurse call system. The local legal and normative requirements and regulations must be observed for the connection.

System design

An IP-SystemManager 2 can work in standalone operation; i.e., it provides complete control for a nurse call system that may consist of only one organisational unit.

For the setup of larger systems, up to 63 IP-SystemManagers 2 can be networked. Interconnection can be implemented through IP networks dedicated solely for the nurse call system or through the existing onsite IP network infrastructures. Here, the requirements of the corresponding standards, e.g., the German standard DIN VDE 0834, must be taken into consideration.

Through the separation of the physical system structure and the later organisation of the nurse call system, the formation of wards and organisational groups is very easy and not bound to a fixed grid. This is independent of the number of IP-SystemManagers 2 and their arrangement in the system.

Through the use of digital voice processes and VoIP technology, the IP-SystemManager 2 provides excellent voice quality throughout the entire system.

The respective system status can be recognised locally and system-wide using corresponding displays at any time.

With an IP-SystemManager 2, both IP-based devices and devices on the OSYnet group bus can be operated, i.e. mixed operation is possible.

Functional safety

Permanent monitoring of the functionality of all connected components, including the interfaces and network connections, insofar as made possible by the connected systems and components.

In case an IP-SystemManager 2 fails, the other IP-SystemManagers 2 of the nurse call system continue to work.

The ward with the failed IP-SystemManager 2 switches to minimum operation, i.e., the signalling of calls using the room lamps and call cancellation at the call location.

In case of the failure of systems or devices connected by interfaces and/or networks, the basic function of the nurse call system is always retained.

Setup and equipment

- Device for mounting to a top-hat rail with 2 top-hat rail retaining clips on the rear of the device
- Possible installation into a 19" cabinet with optionally available accessories, spatial requirement: 3 U
- Pluggable screw connectors for easy assembly and troubleshooting
- Status LED (green) indicates proper operation of IP-SystemManager 2
- Remote access or system updates possible through the IP network
- Easy to access service cover
- Subsequent system expansion or system changes possible without a problem
- The OSYnet group buses of a legacy system with an OSY-ControlCenter can easily be converted to control by a corresponding number of IP-SystemManagers 2

Power supply

The IP-SystemManager 2 is supplied with 24 V DC through the nurse call system. Depending on the system setup, a separate power supply can also be used.

- Power supply, 24 V DC, 2x 2-pole, with LED indicator (green) in case of existing power supply
- Input for buffering message of the UPS control unit 10A (article no. 77 3411 00) , 2-pole with LED indicator (red) in case of buffering message.

Fault messages

All fault messages of the nurse call system are displayed on one IP-SystemManager 2. This IP-SystemManager 2 is determined during the planning of the system.

- LED indicator (red) for fault message
- Fault signal output, changeover contact, potential free, 3-pole, parallel function to LED indicator

Connection of OSYnet 1 & OSYnet 2 group buses

It is technically possible to connect a maximum of 110 bus user per OSYnet group bus port. The IP SystemManager 2 must be installed at the beginning or end of the group bus.

- OSYnet 1, 3-pole: data wires of OSYnet 1 group bus; with LED indicators for Rx (green) and Tx (yellow)
- OSYnet 2, 3-pole: data wires of OSYnet 2 group bus; with LED indicators for Rx (green) and Tx (yellow)
- NF 1, 2-pole: Speech wires of OSYnet 1 group bus, with LED indicator (yellow)
- NF 2, 2-pole: Speech wires of OSYnet 2 group bus, with LED indicator (yellow)

If two wards are connected to an IP-SystemManager 2, whereby the IP-SystemManager 2 is installed on one of the two wards, an OSYnet-SafetyController 2 (article no. 76 2200 00) must be connected to at least one of the two OSYnet group buses in order to fulfil the requirements of the German standard DIN VDE 0834. The IP-SystemManager 2 is installed on one of the two wards, while the OSYnet-SafetyController 2 is installed on the other ward.

If two wards are connected to an IP-SystemManager 2, whereby the IP-SystemManager 2 is installed at a distance from the two wards, OSYnet SafetyControllers 2 (article no. 76 2200 00) must be connected to both OSYnet group buses in order to fulfil the requirements of the German standard DIN VDE 0834. The two OSYnet Safety Controllers 2 must be installed locally on the connected wards.

Ethernet connection

IP-SystemManager 2 communicates via the IP network with the IP based devices of the organisational group, with the other IP-SystemManagers 2 of the nurse call system and with external devices or systems that are connected to the nurse call system via the IP network (e.g. PBX).

- Ethernet, 10/100 Mbit LAN connection RJ45, max. cable length: 90 m
- LED indicator (green) for Link and LED indicator (yellow) for Speed
- The Ethernet connection is internally equipped with a separation point according to DIN EN 60601-1 (2 x MOPP). An external separation point is therefore not required

ESPA 4.4.4 interfaces

IP-SystemManager 2 is equipped with two RS232 connections using the ESPA 4.4.4 protocol. In Flamenco^{IP+} and Flamenco^{IP} systems, these connections are suitable for the connection of radio paging systems, DECT systems and fire alarm systems. The release and use of these connections requires the purchasing of the corresponding function modules.

- RS232 A, 5-pole, ESPA 4.4.4, with LED indicator (green) for Rx and LED indicator (yellow) for Tx; max. cable length: 10 m
- RS232 B, 5-pole, ESPA 4.4.4, with LED indicator (green) for Rx and LED indicator (yellow) for Tx; max. cable length: 10 m
- When using an RS232 connection, an external separating device according to DIN EN 60601-1 (2 x MOPP) must be inserted, e.g. RS-232 isolator 2xMOPP, 4kV (article no. 76 5000 10, order separately).

Technical data

Dimensions (HxWxD):	132 x 216 x 48 mm
Housing colour:	Red
Housing material:	PS UL94-HB
Service cover colour:	White
Service cover material :	ABS
Weight:	415 g
Ingress protection code:	IP20
Power supply:	24 V DC
Permissible voltage range:	20 – 26 V DC
Quiescent current consumption:	120 mA
Ambient temperature:	+5 °C to +40 °C
Relative humidity:	0% to 85% (non-condensing)

Article no.	Product name	System	Note
76 2101 00	IP-SystemManager 2	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} • Flamenco SECURE 	
Purchase software (system and function modules) separately:			
76 0730 00	HEALTH system module	<ul style="list-style-type: none"> • Flamenco^{IP+} 	Each organisational group requires an IP-SystemManager 2 on which a HEALTH or CARE system module is installed, see separate data sheets.
76 0735 00	CARE system module	<ul style="list-style-type: none"> • Flamenco^{IP} 	
76 0738 00	SECURE system module	<ul style="list-style-type: none"> • Flamenco SECURE 	Each organisational group requires an IP-SystemManager 2 on which a SECURE system module is installed, see separate data sheet.

Article no.	Product name	System	Note
76 0740 00	UM/A function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Messaging to Ascom systems requires an IP-SystemManager 2 on which, in addition to a system module, a UM/A function module is installed, see separate data sheet.
76 0740 01	UMS/A function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Messaging and voice connections to Ascom systems require an IP-SystemManager 2 on which, in addition to a system module, a UMS/A function module is installed, see separate data sheet.
76 0740 10	UMS/T function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Messaging and voice connections to Tetronik systems require an IP-SystemManager 2 on which, in addition to a system module, a UMS/T function module is installed, see separate data sheet.
76 0742 00	FAS function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Each time a fire alarm system is connected, an IP-SystemManager 2 is required, on which the FAS function module is installed, see separate data sheet.
76 0743 00	VOIP GATE function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} • Flamenco SECURE 	An IP-SystemManager 2 with the VOIP GATE function module makes it possible to connect a ManagementCenter, i.e. a console workstation, see separate data sheet.

Wall mounting cabinets, suitable for the installation of nurse call system control equipment, order if required:

77 3510 06	10" Wall mounting cabinet, 6U, GD	All	see appendix "Accessories"
77 3519 07	19" Wall mounting cabinet, 7U, GD	All	see appendix "Accessories"
77 3519 12	19" Wall mounting cabinet, 12U, GD	All	see appendix "Accessories"

Equipment support for the installation of devices into wall mounting cabinets, order if required:

76 0900 01	19" Mounting set	All	see appendix "Accessories"
76 0900 02	Mounting set for 10" wall mounting cabinet	All	see appendix "Accessories"

Optional accessories:

76 5000 10	RS-232 isolator 2xMOPP, 4kV	All	see appendix "Accessories"
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IP-SystemManager

76 2100 00



General Description

IP-SystemManager is a decentralised control unit for operating a Flamenco^{IP+}, Flamenco^{IP} or Flamenco SECURE call system for one organisational group.

Important note about compatibility with other control units in a common system. The following control units can be operated with IP-SystemManager, article no. 76 2100 00 in a nurse call system:

- IP-SystemManager, article no. 76 2100 00
- OSY-ControlCenter

Upgrade option: An IP-SystemManager, article no. 76 2100 00, can be updated by Tunstall to the firmware of IP-SystemManager 2, article no. 76 2101 00 by a fee, in order to be operated in a common system. However, compatibility with the OSY ControlCenter/OSY-ControlCenter^{SE} is then no longer available

The number of required IP-SystemManagers for one complete system depends on the number of wards and required central interfaces. The project-specific system design and determination of the necessary components take place during project planning.

All IP-SystemManagers are equipped with the same hardware. Their functional differences result from the installed software (system module, function module) and a project-specific configuration.

Several IP-SystemManagers are networked via an IP network (LAN). One IP-SystemManager in the system manages and coordinates cross-ward functions such as ward coupling (not with Flamenco SECURE), speech communication and superordinate system messages.

System and function modules

Various system and function modules are available for installation on the IP-SystemManagers - from basic functions up to complex interfaces. Single modules can be added and the system can be expanded at any time.

The software modules are not part of the IP-SystemManager product. They must be purchased separately.

For safety reasons, an additional IP-SystemManager is needed for connecting fire alarm systems to a Flamenco^{IP+} or a Flamenco^{IP} nurse call system. The local legal and normative requirements and regulations must be observed for the connection.

System design

An IP-SystemManager can work in standalone operation; i.e., it provides complete control for a nurse call system that may consist of only one organisational unit.

For the setup of larger systems, up to 63 IP-SystemManagers can be networked. Interconnection can be implemented through IP networks dedicated solely for the nurse call system or through the existing onsite IP network infrastructures. Here, the requirements of the corresponding standards, e.g., the German standard DIN VDE 0834, must be taken into consideration.

Through the separation of the physical system structure and the later organisation of the nurse call system, the formation of wards and organisational groups is very easy and not bound to a fixed grid. This is independent of the number of IP-SystemManagers and their arrangement in the system.

Through the use of digital voice processes and VoIP technology, the IP-SystemManager provides excellent voice quality throughout the entire system.

The respective system status can be recognised locally and system-wide using corresponding displays at any time.

With an IP SystemManager, both IP-based devices and devices on the OSYnet group bus can be operated, i.e. mixed operation is possible.

Functional safety

Permanent monitoring of the functionality of all connected components, including the interfaces and network connections, insofar as made possible by the connected systems and components.

In case an IP-SystemManager fails, the other IP-SystemManagers of the nurse call system continue to work.

The ward with the failed IP-SystemManager switches to minimum operation, i.e., the signalling of calls using the room lamps and call cancellation at the call location.

In case of the failure of systems or devices connected by interfaces and/or networks, the basic function of the nurse call system is always retained.

Setup and equipment

- Device for mounting to a top-hat rail with 2 top-hat rail retaining clips on the rear of the device
- Possible installation into a 19" cabinet with optionally available accessories, spatial requirement: 3 U
- Pluggable screw connectors for easy assembly and troubleshooting
- Status LED (green) flashes when the IP-SystemManager is in operation
- Remote access or system updates possible through the IP network
- Easy to access service cover
- Subsequent system expansion or system changes possible without a problem
- The OSYnet group buses of a legacy system with OSY-ControlCenter can easily be converted to control by a corresponding number of IP-SystemManagers

Power supply

The IP-SystemManager is supplied with 24 V DC through the nurse call system. Depending on the system setup, a separate power supply can also be used.

- Power supply, 24 V DC, 2x 2-pole, with LED indicator (green) in case of existing power supply
- Input for buffering message of the UPS control unit 10A (article no. 77 3411 00) , 2-pole with LED indicator (red) in case of buffering message.

Fault messages

All fault messages of the nurse call system are displayed on one IP-SystemManager. This IP-SystemManager is determined during the planning of the system.

- LED indicator (red) for fault message
- Fault signal output, changeover contact, potential free, 3-pole, parallel function to LED indicator

Connection of OSYnet 1 & OSYnet 2 group buses

It is technically possible, to connect a maximum of 110 bus users to one OSYnet group bus port. The IP-SystemManager must be installed at the beginning or end of the group bus.

- OSYnet 1, 3-pole: data wires of OSYnet 1 group bus; with LED indicators for Rx (green) and Tx (yellow)
- OSYnet 2, 3-pole: data wires of OSYnet 2 group bus; with LED indicators for Rx (green) and Tx (yellow)
- NF 1, 2-pole: Speech wires of OSYnet 1 group bus, with LED indicator (yellow)
- NF 2, 2-pole: Speech wires of OSYnet 2 group bus, with LED indicator (yellow)

If two wards are connected to an IP-SystemManager, whereby the IP-SystemManager is installed on one of the two wards, an OSYnet-SafetyController 2 (article no. 76 2200 00) must be connected to at least one of the two OSYnet group buses in order to fulfil the requirements of the German standard DIN VDE 0834. The IP-SystemManager is installed on one of the two wards, while the OSYnet-SafetyController 2 is installed on the other ward.

If two wards are connected to an IP-SystemManager, whereby the IP-SystemManager is installed at a distance from the two wards, OSYnet SafetyControllers 2 (article no. 76 2200 00) must be connected to both OSYnet group buses in order to fulfil the requirements of the German standard DIN VDE 0834. The two OSYnet-Safety Controllers 2 must be installed locally on the connected wards.

Ethernet connection

The IP-SystemManager communicates via the IP network with the IP based devices of the organisational group, with the other IP-SystemManagers of the nurse call system and with external devices or systems that are connected to the nurse call system via the IP network (e.g. PBX).

- Ethernet, 10/100 Mbit LAN connection RJ45, max. cable length: 90 m
- LED indicator (green) for Link and LED indicator (yellow) for Speed
- The Ethernet connection is internally equipped with a separation point according to DIN EN 60601-1 (2 x MOPP). An external separation point is therefore not required

ESPA 4.4.4 interfaces

The IP-SystemManager is equipped with two RS232 connections using the ESPA 4.4.4 protocol. In Flamenco^{IP+} and Flamenco^{IP} systems, these connections are suitable for the connection of radio paging systems, DECT systems and fire alarm systems. The release and use of these connections requires the purchasing of the corresponding function modules.

- RS232 A, 5-pole, ESPA 4.4.4, with LED indicator (green) for Rx and LED indicator (yellow) for Tx; max. cable length: 10 m
- RS232 B, 5-pole, ESPA 4.4.4, with LED indicator (green) for Rx and LED indicator (yellow) for Tx; max. cable length: 10 m
- When using an RS232 connection, an external separating device according to DIN EN 60601-1 (2 x MOPP) must be inserted, e.g. RS-232 isolator 2xMOPP, 4kV (article no. 76 5000 10, order separately).

Technical data

Dimensions (HxWxD):	132 x 216 x 48 mm
Housing colour:	Red
Housing material:	PS UL94-HB
Service cover colour:	White
Service cover material :	ABS
Weight:	415 g
Ingress protection code:	IP20
Power supply:	24 V DC
Permissible voltage range:	20 – 26 V DC
Quiescent current consumption:	120 mA
Ambient temperature:	+5 °C to +40 °C
Relative humidity:	0% to 85% (non-condensing)

Article no.	Product name	System	Note
76 2100 00	IP-SystemManager	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} • Flamenco SECURE 	
Purchase software (system and function modules) separately:			
76 0730 00	HEALTH system module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Each organisational group requires an IP-SystemManager on which a HEALTH or CARE system module is installed, see separate data sheets.
76 0735 00	CARE system module		
76 0738 00	SECURE system module	<ul style="list-style-type: none"> • Flamenco SECURE 	Each organisational group requires an IP-SystemManager on which a SECURE system module is installed, see separate data sheet.

Article no.	Product name	System	Note
76 0740 00	UM/A function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Messaging to Ascom systems requires an IP-SystemManager on which, in addition to a system module, a UM/A function module is installed, see separate data sheet.
76 0740 01	UMS/A function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Messaging and voice connections to Ascom systems require an IP-SystemManager on which, in addition to a system module, a UMS/A function module is installed, see separate data sheet.
76 0740 10	UMS/T function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Messaging and voice connections to Tetronik systems require an IP-SystemManager on which, in addition to a system module, a UMS/T function module is installed, see separate data sheet.
76 0742 00	FAS function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} 	Each time a fire alarm system is connected, an IP-SystemManager is required, on which the FAS function module is installed, see separate data sheet.
76 0743 00	VOIP GATE function module	<ul style="list-style-type: none"> • Flamenco^{IP+} • Flamenco^{IP} • Flamenco SECURE 	An IP-SystemManager with the VOIP GATE function module makes it possible to connect a ManagementCenter, i.e. a console workstation, see separate data sheet.

Wall mounting cabinets, suitable for the installation of nurse call system control equipment, order if required:

77 3510 06	10" Wall mounting cabinet, 6U, GD	All	see appendix "Accessories"
77 3519 07	19" Wall mounting cabinet, 7U, GD	All	see appendix "Accessories"
77 3519 12	19" Wall mounting cabinet, 12U, GD	All	see appendix "Accessories"

Equipment support for the installation of devices into wall mounting cabinets, order if required:

76 0900 01	19" Mounting set	All	see appendix "Accessories"
76 0900 02	Mounting set for 10" wall mounting cabinet	All	see appendix "Accessories"

Optional accessories:

76 5000 10	RS-232 isolator 2xMOPP, 4kV	All	see appendix "Accessories"
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HEALTH system module

76 0730 00



General Description

System software for operating a nurse call system, intended for use in hospitals and similar institutions. The system module is delivered pre-installed on an IP-SystemManager 2 or an IP-SystemManager (sold separately).

The HEALTH system module provides the function of a complete nurse call system and can be combined with other function modules.

Scope of functions

- Control of one organisational group of a nurse call system
- Coordination of higher-level features when linking several IP-SystemManagers 2 or IP-SystemManagers
- Suitable for systems with and without speech communication
- Functional properties in accordance with the German standard DIN VDE 0834
- Permanent system monitoring of all connected components

- Support for various organisational concepts: centralised, decentralised, mixed
- Management of additional installed function modules, e.g. telephony
- Control of all connected interfaces and displays

Characteristics

- 2 staff presence groups
- At least 10 different call types
- Signaling in accordance with the German standard DIN VDE 0834
- Bed identification
- Speech communication: room, bed
- Automatically controlled privacy function
- Variable announcements: rooms, areas
- Zone nursing
- Ward couplings
- Automatic call transfer
- Call handling between wards

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

To be ordered separately: Depending on the other control units in the system, either IP-SystemManager 2 (article no. 76 2101 00) or IP-SystemManager (article no. 76 2100 00). For compatibility information, see description of IP-SystemManager 2 and IP-SystemManager.

Article no.	Product name	Note
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76 0730 00 HEALTH system module

Required hardware, order separately:

Article no.	Product name	Note
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.
Software maintenance		
76 7130 10	Software maintenance HEALTH system module, one update per installed module	

CARE system module

76 0735 00



General Description

System software for operating a nurse call system, intended for use in nursing homes and similar institutions. The system module is delivered pre-installed on an IP-SystemManager 2 or an IP-SystemManager (sold separately).

The CARE system module provides the function of a complete nurse call system and can be combined with other function modules.

Scope of functions

- Control of one organisational group of a nurse call system
- Coordination of higher-level features when linking several IP-SystemManagers 2 or IP-SystemManagers
- Suitable for systems with and without speech communication
- Functional properties in accordance with the German standard DIN VDE 0834
- Permanent system monitoring of all connected components

- Support for various organisational concepts: centralised, decentralised, mixed
- Management of additional installed function modules, e.g. telephony
- Control of all connected interfaces and displays

Characteristics

- 2 staff presence groups
- At least 10 different call types
- Signaling in accordance with the German standard DIN VDE 0834
- Bed identification
- Speech communication: room, bed
- Automatically controlled privacy function
- Variable announcements: rooms, areas
- Zone nursing
- Ward couplings
- Automatic call transfer
- Call handling between wards

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

To be ordered separately: Depending on the other control units in the system, either IP-SystemManager 2 (article no. 76 2101 00) or IP-SystemManager (article no. 76 2100 00). For compatibility information, see description of IP-SystemManager 2 and IP-SystemManager.

Article no.	Product name	Note
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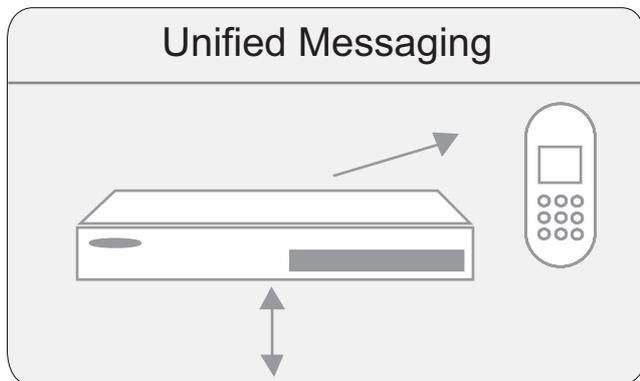
76 0735 00 CARE system module

Required hardware, order separately:

Article no.	Product name	Note
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.
Software maintenance		
76 7135 10	Software maintenance CARE system module, one update per installed module	

UM/A function module

76 0740 00



General Description

The function module is an effective addition to a nurse call system from the Flamenco system family and is intended for unidirectional coupling of telephone systems or pagers with the nurse call system.

The function module is delivered pre-installed on an IP-SystemManager 2 or an IP-SystemManager (sold separately). It makes the function available system-wide.

Messages from the nurse call system are selectively forwarded to mobile devices, e.g. DECT, and are displayed there.

Interface

The telephony system and/or the messaging server is physically connected to the LAN.

The UM/A function module supports Ascom systems.

Features

- Display of messages from the nurse call system: calls, emergency calls, alarms
- Display of call location: bed, room, ward
- Acknowledgement of the message
- Confirmation of call acceptance

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

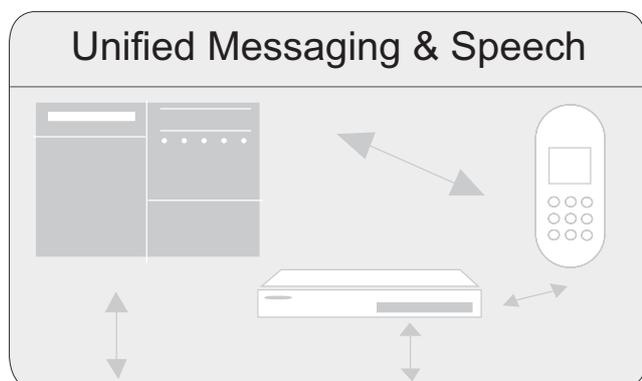
- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

To be ordered separately: Depending on the other control units in the system, either IP-SystemManager 2 (article no. 76 2101 00) or IP-SystemManager (article no. 76 2100 00). For compatibility information, see description of IP-SystemManager 2 and IP-SystemManager.

Article no.	Product name	Note
76 0740 00	UM/A function module	
Required hardware, order separately:		
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.
Software maintenance		
76 7040 10	Software maintenance UM/UMS function module, one update per installed module	

UMS/A function module

76 0740 01



The UMS/A function module supports Ascom systems.

Features

- Display of messages from the nurse call system: calls, emergency calls, alarms
- Display of call location: bed, room, ward
- Speech connection
- Acknowledgement of the message
- Confirmation of call acceptance

General Description

The function module is an effective addition to a nurse call system from the Flamenco system family and is intended for unidirectional coupling of telephone systems or pagers with the nurse call system.

The extended connection supports speech communication, SIP/VoIP.

The function module is delivered pre-installed on an IP-SystemManager 2 or an IP-SystemManager (sold separately). It makes the function available system-wide.

Messages from the nurse call system are selectively forwarded to mobile devices, e.g. DECT, and are displayed there.

Speech communication is possible between the nurse call system and the telephone system.

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

To be ordered separately: Depending on the other control units in the system, either IP-SystemManager 2 (article no. 76 2101 00) or IP-SystemManager (article no. 76 2100 00). For compatibility information, see description of IP-SystemManager 2 and IP-SystemManager.

Interface

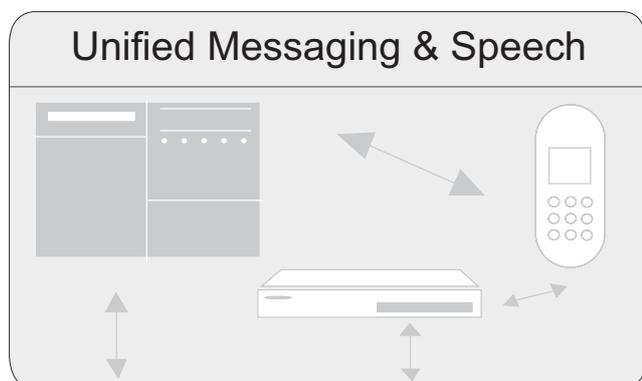
The telephony system and/or the messaging server is physically connected to the LAN.

Article no.	Product name	Note
76 0740 01	UMS/A function module	
Required hardware, order separately:		
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.

Article no.	Product name	Note
Software maintenance		
76 7040 10	Software maintenance UM/UMS function module, one update per installed module	

UMS/T function module

76 0740 10



General Description

The function module is delivered pre-installed on an IP-SystemManager 2 or an IP-SystemManager (sold separately). It makes the function available system-wide.

Interface

The telephony system and/or the messaging server is physically connected to the LAN.

The UMS/T function module supports Tetronik systems.

Features

- Display of messages from the nurse call system: calls, emergency calls, alarms

- Display of call location: bed, room, ward
- Speech connection
- Acknowledgement of the message
- Confirmation of call acceptance

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

To be ordered separately: Depending on the other control units in the system, either IP-SystemManager 2 (article no. 76 2101 00) or IP-SystemManager (article no. 76 2100 00). For compatibility information, see description of IP-SystemManager 2 and IP-SystemManager.

Article no.	Product name	Note
76 0740 10	UMS/T function module	
Required hardware, order separately:		
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.
Software maintenance		
76 7040 10	Software maintenance UM/UMS function module, one update per installed module	

FAS function module

76 0742 00



General Description

The FAS function module is an effective addition to a nurse call system from the Flamenco system family and is intended for unidirectional coupling of fire alarm systems with the nurse call system.

The function module is delivered pre-installed on an IP-SystemManager 2 or an IP-SystemManager (sold separately). It makes the function available system-wide.

Pre-filtered messages are taken over by the call system and displayed. The priorities, the display sequence and the display location can be configured.

The data to be displayed can be taken directly from the interface or assigned in a separate table.

Interface

Communication is carried out using the ESPA 4.4.4 protocol via an RS232 serial interface. The choice of the data to be transferred and the configuration is made in a close agreement with the customer.

Features

Alarm messages from the fire alarm system are received by the nurse call system and displayed as calls (fire alarm" call type, "alarms" call category).

Depending on the fire alarm system, the fire alarm is cancelled in one of the following ways:

- The fire alarm system sends the fire alarm again with the same text when the fire alarm is completed. The nurse call system interprets the second identical message as a cancel message and cancels the fire alarm call.
- The fire alarm is automatically cancelled in the nurse call system as soon as the fire alarm has been acknowledged at a call handling console or a call forwarding point.

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

To be ordered separately: Depending on the other control units in the system, either IP-SystemManager 2 (article no. 76 2101 00) or IP-SystemManager (article no. 76 2100 00). For compatibility information, see description of IP-SystemManager 2 and IP-SystemManager.

Article no.	Product name	Note
76 0742 00	FAS function module	
Required hardware, order separately:		
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.

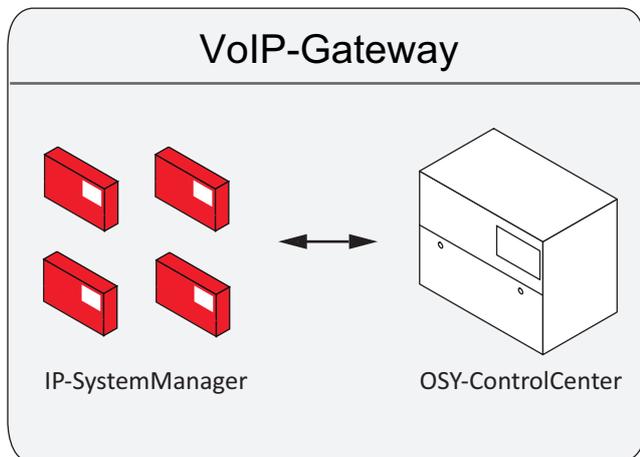
Article no.	Product name	Note
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Software maintenance

76 7041 10	Software maintenance FAS function module, one update per installed module	
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VOIP GATE function module

76 0743 00



General Description

The VOIP GATE function module is an effective addition to a Flamenco^{IP+} or Flamenco^{IP} nurse call system. The function module represents a gateway to VoIP applications.

The function module is delivered pre-installed on an IP-SystemManager 2 or an IP-SystemManager (sold separately). It makes the function available system-wide.

Use case 1: This gateway enables the voice connection of a ManagementCenter with a Flamenco^{IP+} or Flamenco^{IP} application or the voice connection of a ManagementCenter^{SE} with a Flamenco SECURE application. An IP-SystemManager 2 or an IP-SystemManager with VOIP GATE function module enables the connection of a ManagementCenter or ManagementCenter^{SE}, i.e. one console workstation.

Use case 2: This gateway can be used to connect an OSY-ControlCenter (Flamenco system) to a Flamenco^{IP+} or Flamenco^{IP} application or to connect an OSY-ControlCenter^{SE} (Flamenco^{SE} system) to a Flamenco SECURE application. An IP-SystemManager with VOIP GATE function module enables the connection of two voice lines of an OSY ControlCenter or OSY ControlCenter^{SE}.

Interface

The communication is established via the NF connection terminal of the IP-SystemManager 2 or IP-SystemManager. Depending on the number of requested speech channels possibly several IP-SystemManagers 2 or IP-SystemManagers have to be installed for the application.

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

To be ordered separately: Depending on the other control units in the system, either IP-SystemManager 2 (article no. 76 2101 00) or IP-SystemManager (article no. 76 2100 00). For compatibility information, see description of IP-SystemManager 2 and IP-SystemManager.

Article no.	Product name	Note
76 0743 00	VOIP GATE function module	

Article no.	Product name	Note
Required hardware, order separately:		
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.
Software maintenance		
76 7042 10	Software maintenance VOIP GATE function module, one update per installed module	

MPAS function module

76 0744 00

General Description

The MPAS function module is an effective addition to a nurse call system from the Flamenco system family and is intended for unidirectional coupling of the external welfare systems with the nurse call system.

The function module is delivered pre-installed on an IP-SystemManager 2 or an IP-SystemManager (sold separately). It makes the function available system-wide .

Pre-filtered messages are taken over by the call system and displayed. The priorities, the display sequence and the display location can be configured.

The data to be displayed can be taken directly from the interface or assigned in a separate table.

Interface

Communication is carried out using the ESPA 4.4.4 protocol via an RS232 serial interface. The choice of the data to be transferred and the configuration is made in a close agreement with the customer.

Features

The standard range of functions corresponds to the associated product description.

Note on software maintenance

Keep the software up to date. We offer paid updates at irregular intervals:

- New features: Extensions that add useful features to your software.
- Performance improvements: Optimisations for faster and more stable execution.
- Increased security: Protection against current threats by integrating the latest security standards.

To be ordered separately: Depending on the other control units in the system, either IP-SystemManager 2 (article no. 76 2101 00) or IP-SystemManager (article no. 76 2100 00). For compatibility information, see description of IP-SystemManager 2 and IP-SystemManager.

Article no.	Product name	Note
76 0744 00	MPAS function module	
Required hardware, order separately:		
76 2101 00	IP-SystemManager 2	Consider compatibility, see separate data sheet.
76 2100 00	IP-SystemManager	Consider compatibility, see separate data sheet.
Software maintenance		
76 7043 10	Software maintenance MPAS function module, one update per installed module	

OSYnet-SafetyController 2

76 2200 00



General Description

Safety controller for connection to an OSYnet group bus of a system from the Flamenco system family. It is used to maintain basic system functions for an OSYnet group if the IP-SystemManager 2 or IP-SystemManager control unit fails.

This redundancy meets the requirement of the German standard DIN VDE 0834 that a fault in one section of the nurse call system must not affect the remaining sections.

An OSYnet-SafetyController 2 is therefore required when the IP-SystemManager 2 or IP-SystemManager is not installed locally on the ward, is powered by a separate power supply unit, or when two wards are connected to an IP-SystemManager 2 or IP-SystemManager.

Specification

- Control of basic functions for a physical group, in accordance with the German standard DIN VDE 0834

- Automatic change to decentralised operating mode with call forwarding
- Automatic return to normal operation after the fault has been resolved
- In SafetyController mode, only a limited range of functions is available compared to normal operation. The OSYnet-SafetyController 2 is therefore not suitable as the sole control unit for a ward.
- Direct, parallel connection to the OSYnet group bus
- 1 potential-free switching output (changeover contact) to indicate the operating mode
- 1 potential-free switching output (changeover contact) to indicate faults
- Control LED to display the current operating status
- Output resistant to short circuits and overloads
- Mounting on a top-hat rail (35 x 7.5 mm) , several units can be mounted side-by-side
- Suitable as a spare part for the previous model OSYnet-SafetyController, article no. 77 2100 00

Technical data

Dimensions (HxWxD):	90 x 106 x 58 mm
Housing colour:	RAL 7035, light grey
Housing material:	Polycarbonate
Ingress protection code:	IP20
Power supply:	24 V DC
Power supply of the switching outputs:	
- from nurse call system:	24 V DC, max. 60 mA to control a relay
- external:	24 V AC or DC, max. 1 A
Max. current consumption:	230 mA
Ambient temperature:	+5 °C to +40 °C
Relative humidity:	0 % to 85 % (non-condensing)

Article no.	Product name	Note
76 2200 00	OSYnet-SafetyController 2	
Optional accessories:		
00 0276 53	ESD protection cover "short"	see appendix "Accessories"

OSYnet-Y-RepeaterOpto

77 4000 00



Intended for branching and/or isolation of the OSYnet group bus into 2 autonomous sections, Y-branching. One repeater can be used per physical group.

Specification

- Direct connection to the OSYnet group bus and its branch sections (Sub-D, 9-pol.)
- Galvanic isolation of the sections
- Mounting on a top-hat rail (35 x 7.5 mm)

Technical data

Dimensions (HxWxD):	85 x 25 x 83 mm
Housing material:	Polyamide
Ingress protection code:	IP20
Power supply:	24 V DC
Current consumption:	60 mA

General Description

Data repeater for galvanic isolation of the OSYnet group bus.

To be ordered separately: 3x OSYnet connection plug (article no. 77 0950 00).

Article no.	Product name	Note
77 4000 00	OSYnet-Y-RepeaterOpto	
Necessary accessories:		
77 0950 00	OSYnet connection plug	see appendix "Accessories"
NOTE! 3 OSYnet connection plugs are required to connect the 3 OSYnet sections.		

OSYnet-Gateway

77 4001 00



Specification

- Direct connection to the OSYnet group bus and its branch sections, screw terminals
- Configuration interface
- Galvanic isolation of the sections
- Mounting on a top-hat rail (35 x 7.5 mm) , several units can be mounted side-by-side

Technical data

Dimensions (HxWxD):	105 x 37 x 35 mm
Housing material:	Polyamide
Ingress protection code:	IP20
Power supply:	24 V DC
Max. current consumption:	50 mA

General Description

Active gateway for galvanic isolation of the OSYnet group bus.

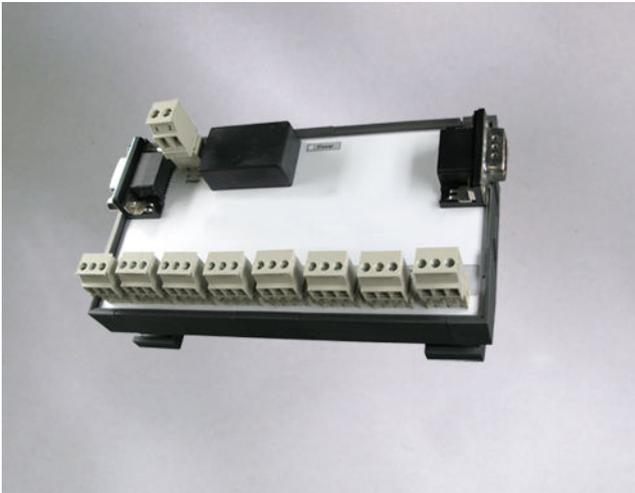
Intended to extend the maximum cable length of the OSYnet group bus by 700 m.

Can be used once per physical group.

Article no.	Product name	Note
77 4001 00	OSYnet-Gateway	

8-way star repeater

77 4002 10



- Max. 10 users per OSYnet
- Max. 100 m cable length per outlet
- Outlets not galvanically isolated
- Cascadable (max. 3 way)
- Mounting on a top-hat rail (35 x 7.5 mm) , several units can be mounted side-by-side
- Automatic connection of the individual 8-way star repeaters when installed in series (max. 3-way)

Note! Support for other constellations and cable structures is possible, but must be checked by Tunstall on a case-by-case basis.

General Description

Intended for the star-shaped distribution of OSYnet data networks, especially for existing projects with an existing installation.

The connection is made between an OSY-Control Center, an IP-SystemManager 2 or an IP-SystemManager and the respective group lines or individual bus users.

Specification

- Star-shaped connection of up to 7 OSYnet lines to an 8-way star repeater

Technical data

Dimensions (HxWxD):	76 x 144 x 57 mm
Power supply:	24 V DC
Quiescent current consumption:	70 mA
Ambient temperature operation:	-20 °C to +60 °C
Ambient temperature storage/transportation:	-40 °C to +80 °C

Article no.	Product name	Note
77 4002 10	8-way star repeater	

12. Power supply

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Power supply unit 10 A, DIN rail

77 3410 00



General Description

Power supply unit for supplying the nurse call system with safety extra-low voltage SELV.

The number of rooms or individual components, that can be connected, is project specific.

2x MOPP according to EN 60601-1.

EMC tested according to EN 60601-1-2.

Wide range input for international use. Short-circuit and overload protected.

DC ok LED and DC ok relay contact for further fault processing.

Designed for the installation onto a 35 mm DIN rail in an enclosure providing protection against electrical, mechanical, and fire hazards. The power supply unit is designed for convection cooling and does not require an external fan.

Technical data

Input

Nominal voltage: 100 – 240 V AC (-15%/+10%)
Input frequency: 50 – 60 Hz ±6%

Output

Nominal current: 10 A
Nominal voltage: 24 V DC
Adjustment range: 24 – 28 V DC
Output power: 240 W

Conformities

Safety: EN 60601-1:2006 +A1:2013
CE mark acc. to: 2014/35/EU, 2014/30/EU, 2014/34/EU, 2011/65/EU
Fulfilled standards: EN 60601-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN IEC 63000
Testing voltage: PRI – SEC: 4 kV
Class of protection: Class I (acc. EN 61140)
Ingress protection code: IP20

Connections

Input, output: Quick-connect spring clamp terminals
DC ok signal: Push-in terminals

Permissible ambient conditions

Ambient temperature: -25 to +70 °C
Relative humidity: 5 to 95% (non-condensing)
Pollution degree: 2 (No condensation or frost is allowed.)

General

MTBF SN 29500: 661,000 h at 10 A, +40 °C
Weight: 620 g
Dimensions (HxWxD): 124 x 39 x 117 mm

To be ordered separately: EMC supplementary filter 24V DC, DIN rail (article no. 77 3417 00)

Article no.	Product name	Note
77 3410 00	Power supply unit 10 A, DIN rail	
Necessary accessories:		
77 3417 00	EMC supplementary filter 24V DC, DIN rail	see appendix "Accessories"
Wall mounting cabinets, suitable for the installation of devices of the modular power supply, order if required:		
77 3510 06	10" Wall mounting cabinet, 6U, GD	see appendix "Accessories"
77 3519 07	19" Wall mounting cabinet, 7U, GD	see appendix "Accessories"
77 3519 12	19" Wall mounting cabinet, 12U, GD	see appendix "Accessories"
Equipment support for the installation of devices into wall mounting cabinets, order if required:		
76 0900 02	Mounting set for 10" wall mounting cabinet	see appendix "Accessories"
76 0900 01	19" Mounting set	see appendix "Accessories"

Power supply unit 5 A, DIN rail

77 3410 50



(Image similar)

General Description

Power supply unit for supplying the nurse call system with safety extra-low voltage SELV.

The number of rooms or individual components, that can be connected, is project specific.

2x MOPP according to EN 60601-1.

EMC tested according to EN 60601-1-2.

Wide range input for international use. Short-circuit and overload protected.

DC ok LED and DC ok relay contact for further fault processing.

Designed for the installation onto a 35 mm DIN rail in an enclosure providing protection against electrical, mechanical, and fire hazards. The power supply unit is designed for convection cooling and does not require an external fan.

Technical data

Input

Nominal voltage: 100 – 240 V AC (-15%/+10%)

Input frequency: 50 – 60 Hz \pm 6%

Output

Nominal current: 5,0 – 4,3A

Nominal voltage: 24 V DC

Adjustment range: 24 – 28 V DC

Conformities

Safety: EN 60601-1:2006 +A1:2013

CE mark acc. to: 2014/35/EU, 2014/30/EU, 2014/34/EU, 2011/65/EU

Fulfilled standards: EN 60601-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN IEC 63000

Testing voltage: PRI – SEC: 4 kV

Class of protection: Class I (acc. to EN 61140)

Ingress protection code: IP20

Connections

Input, output: Quick-connect spring clamp terminals

DC ok signal: Push-in terminals

Permissible ambient conditions

Ambient temperature: -25 to +60 °C

Relative humidity: 5 to 95% (non-condensing)

Pollution degree: 2 (No condensation or frost is allowed.)

General

MTBF SN 29500: 867,000 h at 5 A, +40 °C

Weight: 440 g

Dimensions (HxWxD): 124 x 32 x 102 mm

Article no.	Product name	Note
77 3410 50	Power supply unit 5 A, DIN rail	
Wall mounting cabinets, suitable for the installation of devices of the modular power supply, order if required:		
77 3510 06	10" Wall mounting cabinet, 6U, GD	see appendix "Accessories"
77 3519 07	19" Wall mounting cabinet, 7U, GD	see appendix "Accessories"
77 3519 12	19" Wall mounting cabinet, 12U, GD	see appendix "Accessories"
Equipment support for the installation of devices into wall mounting cabinets, order if required:		
76 0900 02	Mounting set for 10" wall mounting cabinet	see appendix "Accessories"
76 0900 01	19" Mounting set	see appendix "Accessories"

UPS Control unit 10A, for power supply units, article no. 77 3410 xx

77 3411 00



Designed for the installation onto a 35 mm DIN rail in an enclosure providing protection against electrical, mechanical, and fire hazards. The power supply unit is designed for convection cooling and does not require an external fan.

Technical data

Input

Nominal voltage: 24 V DC (-20%/+25%)

Output in mains operation

Output current: nom. 15 A
Output power: nom. 360 W
Output voltage: Input voltage minus 230 mV (at 10 A load)

Output in battery operation

Output current: 10 A
Output voltage: 22.25 V DC (at 10 A load)
Battery voltage: nom. 12 V DC
Bridging time with power supply unit 10A, DIN rail (77 3410 00) and battery module (77 3412 00):
- at nominal current 10 A: typ. 55 minutes
- at 80% load: typ. 60 minutes
Bridging time with power supply unit 5A, DIN rail (77 3410 50) and battery module (77 3412 00):
- at nominal current 5 A: typ. 130 minutes
- at 80% load: typ. 150 minutes
Battery charging time: typ. 17 hours

Conformities

CE mark acc. to: 2014/30/EU, 2014/34/EU, 2011/65/EU

General Description

UPS control unit used in combination with a 24 V DC power supply unit and an external 12 V battery to bridge power failures. When the power supply voltage fails, the energy stored in the battery is released to the load in a regulated process.

Use with power supply unit 10A, DIN rail (article no. 77 3410 00) and battery module (article no. 77 3412 00) for uninterrupted operation with 60 minutes backup power supply at 80% load.

Use with power supply unit 5A, DIN rail (article no. 77 3410 50) and battery module (article no. 77 3412 00) for uninterrupted operation with 150 minutes backup power supply at 80% load

Superior battery management for charging and monitoring of the external battery as well as a stable output voltage over the entire period of battery operation.

Comprehensive diagnostic and monitoring functions; "replace battery" signal included.

Short-circuit and overload protected.

Fulfilled standards: EN 61000-6-3; EN 61000-6-4; EN 61000-6-2; EN 61000-6-1; EN 60079-0; EN 60079-7; EN 60079-15; EN IEC 63000

Ambient temperature: -25 to +70 °C
 Relative humidity: 5 to 95% (non-condensing)
 Pollution degree: 2 (No condensation or frost is allowed.)

Class of protection: Class III (acc. to EN 61140)
 Ingress protection code: IP20

Connections

Input, output, battery: Quick-connect spring clamp terminals
 Signal connection: Screw terminals

General

Power reserves: 50%
 MTBF SN 29500: 886,000 h at 10 A, +40 °C
 Weight: 530 g
 Dimensions (HxWxD): 124 x 49 x 117 mm

To be ordered separately: DIN rail raiser HAGER HYA036 (article no. 76 0900 04)

Permissible ambient conditions

Article no.	Product name	Note
77 3411 00	UPS Control unit 10A, for power supply units, article no. 77 3410 xx	

Necessary accessories:

76 0900 04	DIN rail raiser HAGER HYA036	see appendix "Accessories" 1 DIN rail raiser required per UPS control unit.
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Battery module for UPS control unit 10A (77 3411 00)

77 3412 00



Designed for the installation inside an enclosure providing protection against electrical, mechanical and fire hazards. Ensure sufficient ventilation by following the requirements of the EN 62485-2.

Technical data

Battery characteristics

Battery type:	VRLA, lead acid
Battery voltage:	12 V DC
Battery capacity:	approx. 26 Ah
Battery current:	max. 30 A for discharging max. 5.5 A for charging
Self-discharge rate:	3% per month at 20 °C
Battery fuse:	30 A (ATOF)

General Description

Module incl. battery, mounting bracket, wiring and fuse, which is used in combination with a 24V DC power supply unit and a UPS control unit 10A (article no. 77 3411 0077 3411 00) to bridge power failures.

Use with power supply unit 10A, DIN rail (article no. 77 3410 00) and UPS control unit 10A (article no. 77 3411 00) for uninterrupted operation with 60 minutes back-up power supply at 80% load.

Use with power supply unit 5A, DIN rail (article no. 77 3410 50) and UPS control unit 10A (article no. 77 3411 00) for uninterrupted operation with 150 minutes back-up power supply at 80% load.

Long life battery: 10 to 12 years acc. to EUROBAT. In a typical application it is recommended to replace the batteries at least every 5 years.

Low space requirement. Easy access to the terminals and the fuse. Heavy duty fuse holder and spare fuse included

Conformities

CE mark acc. to:	2014/30/EU, 2014/34/EU, 2011/65/EU (except battery)
Fulfilled standards:	EN 61000-6-3; EN 61000-6-4; EN 61000-6-2; EN 61000-6-1; EN 60079-0; EN 60079-7; EN 60079-15; EN IEC 63000
Class of protection:	Class III (acc. to EN 61140)
Ingress protection code:	IP00

Permissible ambient conditions

Ambient temperature:	-25 to +70 °C
- for charging:	-10 to +50 °C
- for discharging:	-15 to +60 °C
- for transport and storage:	-20 to +50 °C (performance and lifetime might change for storage at temperatures higher than 25 °C)
Relative humidity:	5 to 95% (non-condensing)
Pollution degree:	2 (No condensation or frost is allowed.)

GeneralDimensions
(HxWxD):

179 x 214 x 158 mm

Weight:

10.1 kg (including battery)

Connection:

Screw terminals

Article no.	Product name	Note
77 3412 00	Battery module for UPS control unit 10A (77 3411 00)	

DC-UPS with capacitor storage 24V, 6kWs, for power supply units, article no. 773410xx

77 3413 00



Designed for the installation onto a 35 mm DIN rail in an enclosure providing protection against electrical, mechanical, and fire hazards. The power supply unit is designed for convection cooling and does not require an external fan.

Technical data

Input

Nominal voltage: 24 V DC (-20%/+25%)

Output in mains operation

Output current: nom. 15 A
Output power: nom. 360 W
Output voltage: Input voltage minus 230 mV (at 10 A load)

Output in buffer mode

Output current: max. 15 A
Output voltage: 22.25 V DC (at 10 A load)
Buffer time at nominal current 10 A: typ. 16.5 seconds
Buffer time at nominal current 5 A: typ. 39 seconds
Charging time, when capacitor is completely discharged: typ. 16 minutes
Charging time after discharging with 5 A until buffering stops: typ. 4.5 minutes

Conformities

CE mark acc. to: 2014/30/EU, 2014/34/EU, 2011/65/EU
Fulfilled standards: EN 61000-6-3; EN 61000-6-4; EN 61000-6-2; EN 61000-6-1; EN 60079-0; EN 60079-7; EN 60079-15; EN IEC 63000
Class of protection: Class III (acc. to EN 61140)

General Description

DC-UPS with built-in storage capacitors, which is used in combination with a 24V power supply unit to bridge short-term power failures or voltage fluctuations. When the power supply voltage fails, the energy stored in the capacitors is released to the load in a regulated process. Suitable for nurse call systems with a central UPS mains supply.

Use with power supply unit 10A, DIN rail (article no. 77 3410 00) for short-term uninterrupted operation with 16.5 seconds backup supply.

Use with power supply unit 5A, DIN rail (article no. 77 3410 50) for short-term uninterrupted operation with 39 seconds backup supply.

Maintenance-free DC-UPS with electrochemical double layer capacitors (EDLC). Typically >10 years operational lifetime expectancy.

Comprehensive diagnostic and monitoring functions.

Short-circuit and overload protected.

Ingress protection code:	IP20	Pollution degree:	2 (No condensation or frost is allowed.)
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Connections

Input, output:	Quick-connect spring clamp terminals
Signal connection:	Plug-in connector

General

Power reserves:	50%
MTBF SN 29500:	889,000 h at 10 A, +40 °C
Weight:	1150 g
Dimensions (HxWxD):	124 x 126 x 117 mm

Permissible ambient conditions

Ambient temperature:	-40 to +60 °C
Relative humidity:	5 to 95% (non-condensing)

To be ordered separately: 2 x DIN rail raiser HAGER HYA036 (article no. 76 0900 04)

Article no.	Product name	Note
77 3413 00	DC-UPS with capacitor storage 24V, 6kWs, for power supply units, article no. 773410xx	
Necessary accessories:		
76 0900 04	DIN rail raiser HAGER HYA036	see appendix "Accessories" 2 DIN rail raisers required per DC-UPS.

Plug-in power supply 2xMOPP with hollow plug 5.5/2.1

00 0647 27



Technical data

Input

Nominal voltage:	100 – 240 V AC
Input frequency:	50 – 60 Hz
Connection:	Europlug

Output

Output voltage:	24 V DC
Adjustment range:	24 – 28 V DC
Output power:	max. 20 W
Connection:	150 cm connection cable with 5.5/2.1 hollow plug

General Description

Plug-in power supply for medical applications. The plug-in power supply meets the requirements of EN 60601-1 2x MOPP.

Protection against overvoltage, overload and short circuit.

General

Protective measure:	2x MOPP in accordance with EN 60601-1
Class of protection:	2 (without protective conductor)
Place of use:	Indoor area
Weight:	620 g
Dimensions (HxWxD):	124 x 39 x 117 mm

Article no.	Product name	Note
00 0647 27	Plug-in power supply 2xMOPP with hollow plug 5.5/2.1	
Necessary accessories:		
00 0647 26	Connection cable for plug-in power supply 2xMOPP with 5.5/2.1 hollow plug on open cable end	see appendix "Accessories"

Flush-mounted power supply unit 2xMOPP, 24V/0.75 A with spring-loaded terminals

77 3415 00



Protection against overvoltage, overload and short circuit.

Technical data

Input

Nominal voltage: 100 – 240 V AC
Input frequency: 50 – 60 Hz
Connection: Spring-loaded terminals

Output

Output voltage: 24 V DC
Output power: 18 W
Connection: Spring-loaded terminals

General

Means of protection: 2x MOPP in accordance with EN 60601-1
IP code: Indoor area
Dimensions (HxWxD): 51 x 53 x 25 mm

General Description

Flush-mounted power supply for medical applications. The flush-mounted power supply meets the requirements of EN 60601-1 2x MOPP.

Suitable for installation in a DIN flush-mounted box and for installation on flat surfaces.

Article no.	Product name	Note
77 3415 00	Flush-mounted power supply unit 2xMOPP, 24V/0.75 A with spring-loaded terminals	

Flush-mounted power supply unit 2xMOPP, 24V/1.25 A with spring-loaded terminals

77 3415 01



Protection against overvoltage, overload and short circuit.

Technical data

Input

Nominal voltage: 100 – 240 V AC
Input frequency: 50 – 60 Hz
Connection: Spring-loaded terminals

Output

Output voltage: 24 V DC
Output power: 30 W
Connection: Spring-loaded terminals

General

Protective measure: 2x MOPP in accordance with EN 60601-1
IP code: IP68
Dimensions (HxWxD): 53 x 54 x 34 mm

General Description

Flush-mounted power supply for medical applications. The flush-mounted power supply meets the requirements of EN 60601-1 2x MOPP.

Suitable for installation in a DIN flush-mounted box and for installation on flat surfaces.

Article no.	Product name	Note
77 3415 01	Flush-mounted power supply unit 2xMOPP, 24V/1.25 A with spring-loaded terminals	

13. Accessories

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Accessories for room terminals

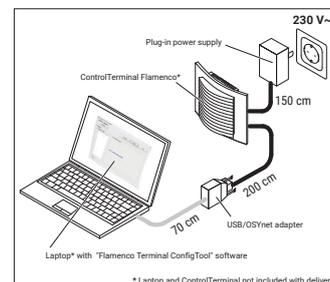
ControlTerminal ConfigSet

77 0920 00

Configuration tool for configuring ControlTerminals Flamenco: ControlTerminal Flamenco (article no. 77 0550 00) or ControlTerminal with doorplate Flamenco (article no. 77 0551 00).

Scope of delivery

- USB/OSYnet adapter
- All required connecting cables and plugs
- Plug-in power supply for the ControlTerminal to be configured
- Download link for "Flamenco Terminal ConfigTool" software and driver for USB/OSYnet adapter

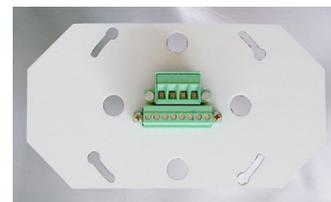


ControlTerminal installation kit

77 0960 00

Designed for mounting a ControlTerminal Flamenco on a 2-gang back box.

- Mounting plate, light grey
- 4-pole connector, up to 2.5 mm²
- 2 insertion bridges
- 8-pole connector
- Mounting screws
- Fully assembled



ControlTerminal connectors

77 0970 00

Designed for pluggable connection of a ControlTerminal when installed without a mounting plate.

- 4-pole connector, up to 2.5 mm²
- 2 insertion bridges
- 8-pole connector

Terminating resistor 120 Ohm

00 0040 76

as bus termination in the last bus user of the OSYnet group bus.



Push-wire connector for junction boxes, 5-pole

00 0210 21

e.g. for Connection socket ComStation (77 0452 30...), ControlTerminal Flamenco (77 0550 00, 77 0555 00), ControlTerminal with doorplate Flamenco (77 0551 00), OSYlink-Door entry speaker 2 (77 0801 10).

Wire cross-section: 0.5 - 2.5 mm²



RAN expander

70 0908 10

Expander to extend the maximum cable length of the RAN room bus.

Designed for use in standard back boxes.

Connection parallel to the RAN room bus.

- Connection: Screw connector, 3-pole
- Power supply: 24 V DC
- Dimensions (HxWxD): 15 x 22 x 33 mm



Accessories for connection sockets

Connector, 5-pole , e.g. for connection socket with call switch

00 0211 37

Pluggable screw connector, e.g. for connecting the connection socket with call switch (70 0171 60...), the connection socket with call switch, bedhead unit (70 0171 50) or for using an RS-232 connection of an IP-SystemManager 2 or IP-SystemManager.

- Screw plug-in connection up to 1.5 mm²
- Reverse polarity protection
- Dimensions (HxWxD): 10 x 20 x 19 mm

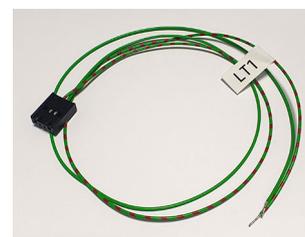


Light relay connection cable

50 0308 00

Cable for connecting the light relay for reading light (LT1) to the connection socket combi bedhead unit or a connection socket bedhead unit MAG .

- Two wires
- Lumberg plug for connection to the connection socket PCB
- Free wire ends to the light relay
- Cable length: 50 cm

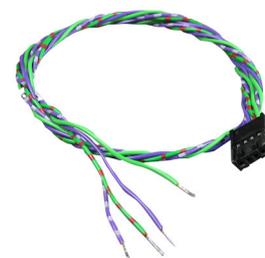


Connection cable

50 0308 02

e.g. for connection socket with call switch (70 0171 60...) or connection socket with call switch bedhead unit (70 0171 50) for connecting a call device to the additional, external call input.

- Length: 50 cm



Button cap white, call button , for connection socket with call switch

19 9102 40

White button cap with red call symbol as a replacement for the red button cap with white call symbol; optional when installing a connection socket with call switch 70 0171 50, 70 0171 60 F or 70 0171 60 A in a medical supply unit.

- Dimensions (HxWxD): 15 x 15 x 9.7 mm



Central plate future linear 1button/2sockets, spare part for connection socket 70017160...

19 9202 08

- Material: Polycarbonate
- Colour: Studio white
- Outer dimensions: 55 x 55 mm
- Usage only in conjunction with intermediate frame article no. 77021056 (order separately)



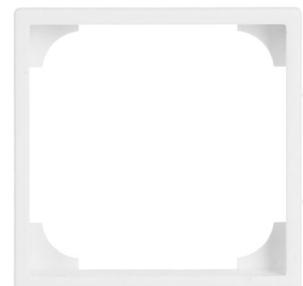
Intermediate frame Busch-Jaeger future® linear, Busch-axcent®

77 0210 56

for using a frame F, 1-gang (77 0210 53) or frame A, 1-gang (77 0210 51) with a central plate 55 x 55 mm, e.g. for radio receiver-T.

- Colour: Studio white, similar to RAL 9016
- Material: Polycarbonate
- Dimensions (HxWxD): 63 x 63 x 8.4 mm
- Internal dimensions (HxW): 56 x 56 mm

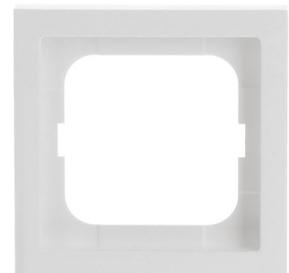
Note: The product is also suitable as a spare part for connection socket with call switch (70 0171 60 F, 70 0171 60 A).



Frame F, 1-gang

77 0210 53

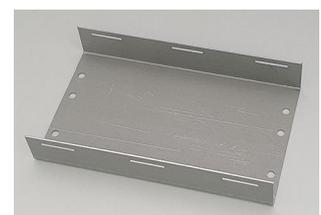
- Colour: Studio white, similar to RAL 9016
- Material: Polycarbonate
- Dimensions (HxWxD): 80 x 80 x 11 mm



Mounting tray for connection socket combi, bedhead unit

00 8001 16

Dimensions (HxWxD): approx. 81 x 135 x 24 mm



Accessories for patient operating devices

ePat® mounting bracket

77 0380 00

Mounting bracket made of plastic to hold an ePat® lite. As wall bracket or for mounting on the bedside cabinet.

- Colour: RAL 9016, traffic white
- Material: ASA/PC
- Required accessories (not included in delivery): 2 screws, screw thread M5, bugle head
- Dimensions (HxWxD): 110 x 69 x 33 mm



ePat® clip

77 0382 00

Clip for attaching to an ePat® lite to hang it in a Patient handset bracket, article no. 70 0800 00, (preferably vertical mounting) or a Patient handset bracket Völker, article no. 70 800 10.

- Colour: RAL 9016, traffic white
- Material: ASA/PC
- Integrated metal plate made of stainless VA steel to use the magnet in the Patient handset bracket
- Dimensions (HxWxD): 130 x 69 x 34 mm



Magnetic adapter for connection socket 7004xx00 for 13-pin DIN socket

77 0381 00

Adapter for connecting an ePAT® lite with magnetic plug, article no. 77 0370 10, into the 13-pin socket of a Connection socket combi (70 0425 00, 70 0424 00, 70 0424 50) or Connection socket combi, bedhead unit (70 0435 00, 70 0434 00, 70 0434 50). Flexible connection cable between plug and socket

- Magnetic female connector
- 13-pin male DIN connector
- 20 cm flexible cable
- Length: approx. 28 cm; Weight: approx. 38 g



Headphone

70 0801 00

Headphones with jack plug (3.5 mm) for connection to an ePAT® lite or a Patient handset for discreet listening to entertainment/TV programmes.

- 1.8 m connection cable



Patient handset bracket for holding the patient handset

70 0800 00

Wear-free plastic fixture with integrated facility for switching the volume when the handset is inserted.

- Can be mounted horizontally or vertically
- Colour: RAL 9018, Papyrus white
- Material: ABS
- Dimensions (HxWxD): 198 x 57 x 18 mm



Patient handset bed bracket Völker for holding the patient handset

70 0800 10

Wear-free plastic fixture with integrated facility for switching the volume when the handset is inserted. For mounting on a bed manufactured by Völker.

- Snaps directly onto a Völker bed.
- Colour: Light grey
- Material: ABS/PC
- Dimensions (HxWxD): 198 x 100 x 60 mm



Self-releasing adapter patient handset

74 0812 50

Flexible adapter that automatically disconnects the cable connection between the ePat® lite or patient handset and the connection socket when placed under tension and thus protects against damage.

- 13-pin connector
- Dimensions (HxWxD): 17 x 17 x 120 mm



Self-releasing adapter pear push switch

74 0812 51 A

Flexible adapter that automatically disconnects the cable connection between the pear push switch and connection socket when placed under tension and thus protects against damage.

- 8-pin connector
- Dimensions (HxWxD): 14 x 14 x 120 mm



Equipment and cable clamp

70 0361 00

Protects all patient devices against tensile stress. Exact routing of all cables and equipment along the bed rail or bed trapeze. The equipment and cable clamp detaches from the rail automatically under tensile load.

- Packing unit: 10 pieces



Accessories for switches

Connector, 3-pole

70 0807 00

Pluggable connector for connecting the switches and room lamps with RAN connection to the room bus (RAN).

- Labelled connectors
- Screw connection up to 1.5 mm²
- Anti-twist protection
- Dimensions (HxWxD): 10 x 11 x 15 mm



Surface mounting box 1-gang for frame F

77 0210 55

E.g. for surface mounting of switches from the 77 021x xx F product series.

- Surface mounting box 1-gang, incl. required fittings
- Colour: Studio White
- Housing material: Polycarbonate
- Dimensions (HxWxD): 80 x 80 x 42 mm



Surface-mounted housing Standard 55 pure white glossy

19 9200 20

Flat design, 1-gang, without frame.

- For 1-gang Gira Standard 55 pure white glossy (GG) frames
- Also suitable for different 1-gang frames (e.g. J, M, B, F, A)
- Colour: Pure white glossy
- Article number of the manufacturer Gira: 021903
- Dimensions (HxWxD): 91.5 x 91.5 x 15 mm



Quelle: Gira Mediadatenbank

Call switch cover

77 0210 63

Switch cover for call switches with frame A or F.

- Housing material: Plastic
- Colour: Transparent/clear
- Weight: 79 g

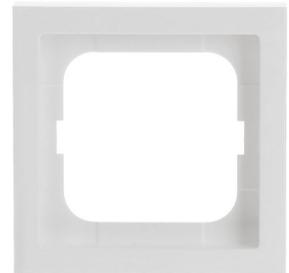


Switch not included

Frame F, 1-gang

77 0210 53

- Colour: Studio white, similar to RAL 9016
- Material: Polycarbonate
- Dimensions (HxWxD): 80 x 80 x 11 mm



Frame A, 1-gang

77 0210 51

- Colour: Studio white, similar to RAL 9016
- Material: Polycarbonate
- Dimensions (HxWxD): 91 x 91 x 11 mm

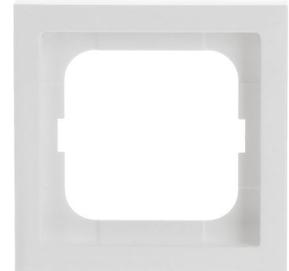


Accessories for radio-based call devices

Frame F, 1-gang

77 0210 53

- Colour: Studio white, similar to RAL 9016
- Material: Polycarbonate
- Dimensions (HxWxD): 80 x 80 x 11 mm



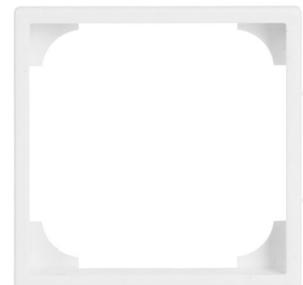
Intermediate frame Busch-Jaeger future® linear, Busch-axcent®

77 0210 56

for using a frame F, 1-gang (77 0210 53) or frame A, 1-gang (77 0210 51) with a central plate 55 x 55 mm, e.g. for radio receiver-T.

- Colour: Studio white, similar to RAL 9016
- Material: Polycarbonate
- Dimensions (HxWxD): 63 x 63 x 8.4 mm
- Internal dimensions (HxW): 56 x 56 mm

Note: The product is also suitable as a spare part for connection socket with call switch (70 0171 60 F, 70 0171 60 A).



Magnetic wall bracket for Radio receiver-T

Z 00 8202 21

for magnetic attachment of the radio receiver-T to the wall next to the connection socket.

- Dimensions (HxWxD): 64 x 40 x 12 mm



Wall mount for large-surface pneumatic switch

Z 00 8201 16

Acrylic wall mount with quadruple magnetic connection for secure hold of the large-surface pneumatic switch (Z 00 8201 13, Z 00 8201 15, Z 00 8201 13). Two-hole mounting on the wall .

- Easy to disinfect
- Colour: white
- 2 screws & 2 dowels included
- Weight: 30 g
- Dimensions (HxWxD): 80 x 80 x 7 mm



Neck cord MyAmie, white

D6702137

Spare part for MyAmie P68007/02 radio trigger.



MyAmie wrist strap (20 mm), packaging unit 10 pieces

D6702145

Spare part for MyAmie P68007/02 radio trigger.

- Material: 13% elastic polyamide-coated yarn, 87% polyester
- Dimensions (LxW): approx. 210 x 20 mm



MyAmie wrist strap (10 mm), packaging unit 10 pieces

D6702135

for radio triggers, article no. P6800x/0x.

- Material: 13% elastic polyamide coated yarn, 87% polyester
- Dimensions (LxW): approx. 180 x 10 mm



MyAmie belt clip, packaging unit 10 pieces**D6702136**

for radio triggers, article no. P6800x/0x. Optionally, it can also be used to mount the radio trigger on the wall, creating a permanently installed call switch. Recommended installation location e.g. at the bed, in the bathroom or at the flat door.



MyAmie not included

EasyPress adapter MyAmie, packaging unit 1 piece**D6702112**

for MyAmie radio trigger P6800x/0x to make pressing the call button easier.



MyAmie not included

MyAmie keyring, packaging unit 1 piece**70 0171 60 A**

for radio triggers, article no. P6800x/0x.



MyAmie not included

Accessories for signal lamps, corridor displays

Connector, 3-pole

70 0807 00

Pluggable connector for connecting the switches and room lamps with RAN connection to the room bus (RAN).

- Labelled connectors
- Screw connection up to 1.5 mm²
- Anti-twist protection
- Dimensions (HxWxD): 10 x 11 x 15 mm



Connector, 7-pole, e.g. for room lamps universal

70 0807 00

Plug-in screw clamp e.g. for the connection of room lamps universal.

- Screw connections up to 1.5 mm²
- Distort protection
- Dimensions (HxWxD): 10 x 28 x 15 mm



Doorplate universal

77 0189 00

Doorplate without light sections, for room designation.

- Dimensions (HxWxD): 190 x 150 x 40 mm
- Labelling field (HxW): approx. 70 x 92 mm

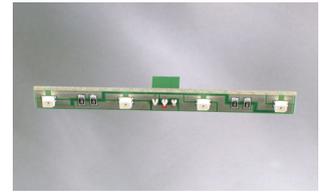


LED module

77 0190 0x

for room lamps (77 017x xx, 77 018x xx):

- LED module, red: 77 0190 00
- LED module, yellow: 77 0190 01
- LED module, green: 77 0190 02
- LED module, white: 77 0190 03
- LED module, blue: 77 0190 04



LED module, red

13 5200 00A

Spare part for group lamps (77 011x 02), direction lamp (77 0111 02) and for cell lamps (78 0170 xx).

- Current consumption: 10 mA @ 24 V DC



LED module, green

13 5202 00A

Spare part for group lamps (77 011x 02), direction lamp (77 0111 02) and for cell lamp (78 0170 xx).

- Current consumption: 10 mA @ 24 V DC



Surface mounting frame for room lamps 77...

00 0281 26

- Material: ABS
- Dimensions (HxWxD): 80 x 86 x 21 mm



Surface mounting frame Kathrein ESZ 50 for room lamps 77...

00 0281 28

- Colour: pure white RAL 9010
- Dimensions (HxWxD): 80 x 80 x 31 mm



RJ45 surface-mount socket (2-way)

00 0280 39

Surface-mount socket with two 8-pin RJ45 sockets, LSA connectors. Max. 10 Gbit/s, max. 90 W allowed for PoE

Suitable e.g. for corridor display IP Alpha 16 (76 0150 00), corridor display IP Alpha 16, double-sided (76 0160 00), ComStation IP (76 0605 50), ComStation SE IP (78 0606 50).

- Colour: Pure white (RAL 9010)
- Plug direction tilted 45° downwards
- Dimensions (HxWxD): 85 x 85 x 43 mm



Extension set for ceiling suspension, 50cm , for corridor displays 19078416, 29078412, 76016000

19 0780 05

For extending the ceiling suspension by 50 cm.

- 2 rope connectors, with wire rope holders on both sides for rope diameters 1.0 to 1.5 mm
- 2 extension ropes, 50 cm



Accessories for call handling consoles

System computer

80 6010 00D

System computer for controlling a ManagementCenter^{PC}, ManagementCenter^{SE} or operating self-sufficient software applications.

The design corresponds to the standard equipment available at the time of delivery. Further details are available on request.

LCD monitor

80 6049 00

The design corresponds to the standard equipment available at the time of delivery. Further details are available on request.

RJ45 surface-mount socket (2-way)

00 0280 39

Surface-mount socket with two 8-pin RJ45 sockets, LSA connectors. Max. 10 Gbit/s, max. 90 W allowed for PoE

Suitable e.g. for corridor display IP Alpha 16 (76 0150 00), corridor display IP Alpha 16, double-sided (76 0160 00), ComStation IP (76 0605 50), ComStation SE IP (78 0606 50).

- Colour: Pure white (RAL 9010)
- Plug direction tilted 45° downwards
- Dimensions (HxWxD): 85 x 85 x 43 mm



Push-wire connector for junction boxes, 5-pole

00 0210 21

e.g. for Connection socket ComStation (77 0452 30...), ControlTerminal Flamenco (77 0550 00, 77 0555 00), ControlTerminal with doorplate Flamenco (77 0551 00), OSYlink-Door entry speaker 2 (77 0801 10).

Wire cross-section: 0.5 - 2.5 mm²



Frame F, 2-gang

77 0210 54

- Colour: Studio white, similar to RAL 9016
- Material: Polycarbonate
- Dimensions (HxWxD): 80 x 151 x 11 mm



Accessories for application software

System computer

80 6010 00D

System computer for controlling a ManagementCenter^{PC}, ManagementCenter^{SE} or operating self-sufficient software applications.

The design corresponds to the standard equipment available at the time of delivery. Further details are available on request.

System computer in 19" design

80 6010 03

The design corresponds to the standard equipment available at the time of delivery. Further details are available on request.

LCD monitor

80 6049 00

The design corresponds to the standard equipment available at the time of delivery. Further details are available on request.

LCD monitor console 19" rack

80 6054 00

The design corresponds to the standard equipment available at the time of delivery. Further details are available on request.

Accessories for system add-ons

IR TV control module universal incl. cable set

77 0360 11

Interface for the control of a commercially available TV set using infrared signals. Support is provided for a large number of TV manufacturers and models, e.g. LG, Philips, Samsung.

Integrated audio amplifier for driving an operator device. The output volume can be adjusted within predefined limits.

The adjustment of the audio level with the TV sets in use has to be taken into account.

Consists of a control module and an IR transmitting unit. Mounting directly to the IR input of the TV set.

For the configuration of the control signals the TV set model must be known.

- The following IR signal modes are supported: RC5/RC5X (e.g. Philips), RC6, SAMSUNG, LG/NEC
- Integrated interface to the RAN room bus RAN
- Potential separation according to DIN VDE 0834 and DIN EN 60601-1
- 2 LEDs for displaying the operating status
- Incl. cable set
- Weight: approx. 200 g (without cables)
- Power supply: 24 V DC (from nurse call system)
- Quiescent current consumption: 23 mA
- Max current consumption: 45 mA
- Dimensions (HxWxD): 35 x 135 x 90 mm

To be ordered separately: 1x per project: IR TV control module installation kit (article no. 77 0360 40)



TV audio amplifier

77 0365 00

Audio amplifier for distributing audio signals to up to 4 listening points/beds.

Can be used in conjunction with TV sets with a headphone jack.

All connecting cables and fastening materials required for operation are included.

- Up to 4 listening points/beds
- Potential separation in accordance with DIN VDE 0834 and DIN EN 60601-1
- Potentiometer with external pin for volume control
- External 12 V power supply. **NOTE TO THE INSTALLATION!** A second mains socket is required per TV set for the TV audio amplifier.
- Power LED
- Dimensions (HxWxD): 27 x 86 x 70 mm
- Weight: approx. 90 g (without cables)
- Power supply: via external 12 V power supply



24V relay module, 2xMOPP

00 8006 90

Relay module with safe isolation in accordance with EN 60601-1 (2x MOPP) and DIN VDE 0834, for installation in the sub-distribution system, for switching lighting or other consumers. No freewheeling diode required

Also suitable for parallel-compensated devices.

- Rated voltage: 230 V AC
- Rated current: 16 A
- Control voltage: 24 V
- Switch contacts: 1
- Power consumption: 0.4 W
- Dimensions (HxWxD): 32 x 42 x 85 mm



Impulse switch for built-in installation, 2xMOPP

00 8006 91

Impulse switch for built-in installation. With safe separation in accordance with EN 60601-1 and DIN VDE 0834.

For incandescent and halogen lamp loads up to 500 W and fluorescent lamps with conventional ballast (KVG) in DUO circuit up to 1000 VA. Fluorescent lamps with conventional ballast (KVG) parallel compensated up to 300 VA. Connections: Low-voltage side: 4-pin plug-in housing for STOCKO MFF13264-6-0-404 connector. 230 V side: 6-pole terminal strip with push-in terminals, maximum conductor cross-section 2.5 mm².



10A protection is required. A Stocko plug is included.

- Nominal voltage: 230 V
- Control voltage: 12 - 24 V UC
- Control current: 10 mA at 24 V
- Minimum command time: 20 ms
- Command pause: 300 ms
- Dimensions (HxWxD): 85 x 40 x 28 mm

24V impulse switch DRS, double, 2xMOPP

00 8006 94

Impulse switch with two independent impulse switches with safe isolation in accordance with EN 60601-1 (2x MOPP) and DIN VDE 0834.

For installation in sub-distribution systems, for switching lighting or other consumers.



- Rated voltage: 230 V AC
- Rated current: 6 A
- Control voltage: 24 V
- Switch contacts: 2
- Power consumption: 0.75 W
- Dimensions (HxWxD): 32 x 42 x 5 mm

Top-hat rail mounting bracket (EFE)

00 8006 95

Snap-on bracket for mounting the relay and impulse switch series according to DIN EN 50022 (35x7.5 mm) on top-hat profile slides.



Accessories for interfaces

ESD protection cover "long"

00 0276 54

E.g. as protection for the OSYlink-Universal or OSYlink AS-CCS if the device is not installed in a control cabinet.

- Material: Plastic, transparent
- Hook-and-loop fastening strip
- Weight: 21 g
- Dimensions (HxWxD): 155 x 180 x 50 mm



ESD protection cover "short"

00 0276 53

E.g. as protection for OSYlink-SafetyController 2 (76 2200 00), OSYlink-SafetyController 2 SE (78 2200 00), OSYlink-Announcement L, OSYlink-Announcement H or OSYlink-Door entry speaker 2 if the device is not installed in a control cabinet.

- Material: Plastic, transparent
- Hook-and-loop fastening strip
- Weight: 15 g
- Dimensions (HxWxD): 155 x 125 x 50 mm



Push-wire connector for junction boxes, 5-pole

00 0210 21

e.g. for Connection socket ComStation (77 0452 30...), ControlTerminal Flamenco (77 0550 00, 77 0555 00), ControlTerminal with doorplate Flamenco (77 0551 00), OSYlink-Door entry speaker 2 (77 0801 10).

Wire cross-section: 0.5 - 2.5 mm²



Terminating resistor 120 Ohm

00 0040 76

as bus termination in the last bus user of the OSYnet group bus.



Accessories for system control

RS-232 isolator 2xMOPP, 4kV

76 5000 10

4 kV galvanically isolated RS-232 isolator provides protection against external influences in compliance with the standard DIN EN 60601-1(-2).

- 2 x MOPP / 230 V AC
- 4 kV galvanic isolation
- 15 kV ESD protection
- Supply voltage: 100–240 AC (via supplied plug-in power supply)
- Power consumption: 3 W (via supplied plug-in power supply)
- Standard: DIN EN 60601-1, DIN EN 60601-1-2
- Weight: approx. 350 g (incl. power supply unit & D-sub extension)
- Dimensions (HxWxD): 150 x 80 x 30 mm



Network isolator LAN

76 5000 00

External network isolator for galvanic network isolation with 2 x MOPP according to DIN EN 60601-1.

- Dielectric strength of signal and shielding: 5 kV
- Operating mode: Continuous operation
- Data throughput: 10/100/1000 MBit/s
- Connections: 2x RJ45
- Conformity: IEEE 802.3
- **Fulfilled standards**
 - Safety: DIN EN / IEC 60601-1 3rd
 - EMC: DIN EN / IEC 60601-1-2
- Weight: approx. 50 g
- Dimensions (HxWxD): 23 x 29 x 65 mm



NTP TimeServer/DCF M150

77 0910 12

The TimeServer is used to receive time signals by means of DCF77 signals.

It is designed as a stand-alone version and enables time signals to be transferred via Ethernet using the SNTP protocol.

It updates the system time automatically when used in conjunction with a system from the Flamenco system family and a connection to the IP network of the nurse call system.



- Aluminium profile housing for mounting on top-hat rail (35 x 7.5 mm)
- Max. voltage range: 20–60 V DC
- Power consumption: 20 W
- Receiving antenna in waterproof housing for outdoor use
- Web-based status and configuration program, plus graphical configuration tool for console access
- Dimensions (HxWxD): 105 x 126 x 189 mm
- NOTE! If the device is connected to the 24 V DC power supply of the nurse call system, the LAN port must be connected via a separating device with 2 x MOPP according to DIN EN 60601-1 (e.g. network isolator LAN (76 5000 00))

Connector, 5-pole , e.g. for connection socket with call switch

00 0211 37

Pluggable screw connector, e.g. for connecting the connection socket with call switch (70 0171 60...), the connection socket with call switch, bedhead unit (70 0171 50) or for using an RS-232 connection of an IP-SystemManager 2 or IP-SystemManager.



- Screw plug-in connection up to 1.5 mm²
- Reverse polarity protection
- Dimensions (HxWxD): 10 x 20 x 19 mm

ESD protection cover "short"

00 0276 53

E.g. as protection for OSYlink-SafetyController 2 (76 2200 00), OSYlink-SafetyController 2 SE (78 2200 00), OSYlink-Announcement L, OSYlink-Announcement H or OSYlink-Door entry speaker 2 if the device is not installed in a control cabinet.



- Material: Plastic, transparent
- Hook-and-loop fastening strip
- Weight: 15 g
- Dimensions (HxWxD): 155 x 125 x 50 mm

OSYnet-Connecting plug for 77400000

77 0801 10

A connecting plug for connecting an OSYnet section to the OSYnet-Y-RepeaterOpto (article no. 77 4000 00). Since three sections are connected to an OSYnet-Y-RepeaterOpto, three OYnet-Connecting plugs have to be ordered.



SPD module for network cables , DPA M CLE RJ45B 48

77 4900 02

Fully shielded class E surge arrester, tested according to EN 61643-21, for universal use according to EN 50173 for all data services up to 48 DC for protecting 4 wire pairs of data network interfaces via RJ 45 sockets, for distributors or single-workstation applications, space-saving, width 19 mm.

- Maximum continuous DC voltage: 48 V
- Nominal current: 1 A
- C2 nominal discharge current (8/20) Ad-PG, total: 10 kA
- Mounting on top-hat rail (35 x 7.5 mm)
- Dimensions (HxWxD): 75 x 19 x 36 mm



Accessories for power supply

EMC supplementary filter 24V DC, DIN rail

77 3417 00

Supplement to the power supply unit 10A, DIN rail (77 4310 00) for optimum limitation of conducted interference emissions to meet DIN EN 61000-6-3. Installation in the direct vicinity of the power supply unit.

Input:

- Nominal voltage: 24 V DC
- Nominal current: max. 12 A
- Dimensions (HxWxD): 90 x 36 x 58 mm
- Weight: 93 g
- Housing material: Polycarbonate
- Ingress protection code: IP20



DIN rail raiser HAGER HYA036, for insulated mounting of modular units

76 0900 04

Required accessory for insulated mounting of UPS Control unit 10A (77 3411 00) or DC-UPS with capacitor storage 24V, 6kWs (77 3413 00).

- Length: 106 mm
- Packing unit: 3 pieces
- For insulated mounting, a distance to earthed parts of min. 1 cm must be maintained.
- Max. 2 DIN rail raisers can be mounted in a mounting set for 10" wall mounting cabinet (76 0900 02)
- Max. 4 DIN rail raisers can be mounted in a 19" mounting set (76 0900 01)
- Dimensions (HxWxD): 42 x 106 x 35 mm



Connection cable for plug-in power supply 2xMOPP DC hollow socket 5.5/2.1 to open cable end

00 0647 26

- Twin cable, length: 24 cm
- Red wire connected to inner conductor
- Black wire connected to outer conductor
- Tin-plated wire ends
- Maximum load: 1 A / 24 V DC



Wall housing and equipment carriers

10" Wall mounting cabinet, 6U, GD

77 3510 06

Wall mounting cabinet for installing power supply modules or control technology devices of the call system.

- Viewing door made of safety glass, lockable
- 254 mm (10") profile rails mounted on the front inside the cabinet, adjustable depth
- Cable feed with brush strip at the top, with plastic cover on the base
- Ventilation slots for active and passive ventilation
- Weight: 5.5 kg
- Dimensions (HxWxD): 330 x 312 x 300 mm



19" Wall mounting cabinet, 7U, GD

77 3519 07

Wall mounting cabinet for installing power supply modules or control technology devices of the call system.

- Lockable safety glass door with metal struts on the sides
- 483 mm (19") profile rails mounted on the front inside the cabinet, adjustable depth
- Cable feed on the back and base with plastic cover and at the top with sliding cover
- Top is pre-prepared to accommodate a fan element (punched-out mounts)
- Ventilation slots for active and passive ventilation
- Weight: 17 kg
- Dimensions (HxWxD): 420 x 600 x 450 mm



19" Wall mounting cabinet, 12U, GD

77 3519 12

Wall mounting cabinet for installing power supply modules or control technology devices of the call system.

- Lockable safety glass door with metal struts on the sides
- 483 mm (19") profile rails mounted on the front inside the cabinet, adjustable depth
- Cable feed on the back and base with plastic cover and at the top with sliding cover
- Top is pre-prepared to accommodate a fan element (punched-out mounts)
- Ventilation slots for active and passive ventilation
- Weight: 25 kg
- Dimensions (HxWxD): 643 x 600 x 450 mm



Mounting set for 10" wall mounting cabinet

76 0900 02

Mounting set for installing power supply modules or control technology devices of the nurse call system in a 10" wall mounting cabinet. Width of top-hat rail: 203 mm.

Frame made of sheet steel with top-hat rail. Integrated cable catch, strain relief and required accessories are included.

- Mounting type: 10", 3U
- Frame material: Zinc-coated sheet steel
- Top-hat rail: 35 x 7.5 mm, width: 203 mm
- Dimensions (HxWxD): 132.5 x 260 x 180 mm



19" Mounting set

76 0900 01

Mounting set for installing power supply modules or control technology devices of the nurse call system in a 19" system cabinet or 19" wall mounting cabinet. Width of top-hat rail: 425 mm.

Frame made of sheet steel with top-hat rail and front cover. Integrated cable catch, strain relief and required accessories are included.

- Mounting type: 19", 3U
- Colour: Zinc-coated frame, red front cover.
- Frame material: Zinc-coated sheet steel
- Top-hat rail: 35 x 7.5 mm, width: 425 mm
- Dimensions (HxWxD): 132.5 x 482.6 x 180 mm



Back boxes

Back box solid wall, 1-gang, Installation opening: Ø 60 mm

17 0100 00

Depth: 46 mm



Back box solid wall, 2-gang, Installation opening: 140 x 60 x 42 mm, oval

17 0410 00

Without separating strip



Back box partition wall, 1-gang, burr hole: Ø 68 mm

17 5100 00

Depth: 47 mm



Back box partition wall, 2-gang, burr hole: Ø 2 x 68 mm, oval

17 5400 00

Depth: 47 mm, centre distance: 71 mm, without separating strip



TUNSTALL NURSECALL SYSTEMS

As a pioneer with the highest expertise and an experienced innovator, Tunstall enjoys an excellent reputation. More and more facilities around the world are placing their trust in us: hospitals and senior care facilities as well as correctional institutions. Therefore, we strive not only to meet these expectations but to exceed them through quality, absolute customer orientation, and perfect service. In the development of our products, we work hand in hand with our customers to continuously incorporate questions, suggestions, and wishes into new solutions. Continuously inspired, this has made us the international market leader in innovation.

New technological standards enable an efficient organisation of everyday work with integration possibilities into systems and peripheral devices of older generations, easy installation and maintenance through plug-and-play components, maximum organisational freedom, and last but not least, excellent design of all operating devices.

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