



hospicall P7

- Nurse Call Light Systems
- Personal Protection Systems
- Emergency Call Systems

...just press the button – and **help** is on the way!



Dedicated, sustained, dynamic. This is our mission statement, this is hospicall GmbH. We have our roots in Wiehl, in the picturesque Oberberg district east of Cologne. This is where we develop, produce, and live.

For more than 15 years we have been meeting the challenges of the market – producing call systems that set standards both economically and innovatively. Our staff’s experience and know-how are key factors to our success.

Far beyond our core capabilities as developers and producers, we see ourselves as partners passionately working every single day to provide optimal and flexible solutions that are ideally tailored to a customer’s specific applications and requirements. Our objective is to facilitate product installation, and to provide reliable safety for the end user. **Just press the button – and help is on the way!** To cut a long story short – state-of-the-art technology and reliability both in the clinical environment and for personal protection are our motivation and incentive.

This in mind, we are continually refining our products step by step to present innovative and enhanced solutions at any given time – now and also in the future. **This is what makes us authentic, this is what hospicall GmbH stands for.**

Dedicated. Sustained. Dynamic.



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System Description

General

The call system hospicall P7 is a modern call system which conforms to DIN VDE 0834 1/2:2000-04 and takes account of, in particular, the increasing economic requirements of modern call systems. This applies not only to the purchase and installation but also to the operation in the day-to-day care environment of hospitals and care homes. The system can be used in the Application Areas 1 and 2 according to DIN/VDE.

System Structure

hospicall P7 is a de-centrally structured, scalable system, which, through its modularity and flexibility, is just as suitable for the smallest systems with two or three treatment rooms as for an institution with several different residential areas or wards and function areas. Hereby, the System Control Unit is the master control unit for the entire system and, in addition to the required monitoring functions, takes on responsibility for communications spanning the zones between the connected zone controllers and third-party systems. The ward controller serves as the control unit within a ward and regulates the data traffic between the components in the room and corridor. An important role of the control is the optical and acoustic call forwarding and/or call handling as well as the forwarding of this information to the higher ranking modules. The room terminals, room modules and information displays are connected to the ward controller via the ward bus. In particular, the room terminals and room modules act as control units for a room. As well as having large controls for the care staff, the room terminal has a large, easily readable colour touch-display for indicating and processing calls and the necessary components for speech communication, such as loudspeaker and microphone.

Depending on the how the room is equipped, the other release elements of the room as well as the corridor indicator lamps (where not integrated into the room module) are connected to the room terminal or room module. Different call units can be connected for the various call release requirements. In the various models, the call units are supplied with large, easily operated call and cancel push-buttons, as well as presence push-buttons with membrane cover for easy cleaning and disinfecting. Beneath all membrane-covered operating surfaces there are micro switches, which provide a good tactile feel.

The configuration and setting up of features, e.g. room-by-room reduction in volume of call forwarding, takes place from a central position, independently of the operating system, with a browser operator interface.

Jack sockets in the call units enable the connection of pear and multiple push-buttons and patient handsets. They can also be used for the connection of medical equipment, which can send alarms via the call system. In the corridor the care personnel are informed via the large wall or ceiling mounted displays; duty room terminals for wall mounting or desktop table mounting are available in the duty room, by means of which organisational measures such as zone linking and general announcements can be handled, as well as call processing.

System Integration / Interfaces

Of course the system hospicall P7 has a variety of interfaces available for messaging systems (DECT systems, paging systems, GSM mobile telephone) or old equipment. The call logging and evaluation can be made available in each duty room via a standard data network (CAT5 wiring according to DIN EN 50173). The operating devices in the rooms with their mechanical characteristics are adapted to the current requirements of the switch industry, taking into account the architectural aspects, which are not only indispensable in pleasantly laid out senior residences. Also, the integration of these units in lighting rails or medical supply units is guaranteed.

Configuration

The system configures itself on commissioning. All room and ward bus clients are automatically recognised and are provided with function typical parameters (WC units, bed units).

The configuration and setting up of features, e.g. room-by-room reduction in volume of call forwarding, takes place from a central position, independently of the operating system, with a browser operator interface.



Installation

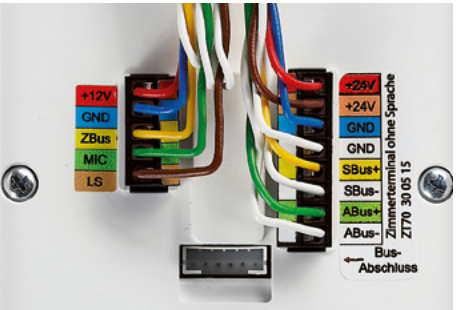
The entire installation of the individual system components occurs via a new installation concept by "Plug-and-Play". This makes the whole installation process noticeably easier. The possibility of mistakes is almost impossible and the simplified maintenance and administration of the system contribute to more efficiency. In order to keep the installation of the system as simple and economical as possible, the components have been conceived in such a way that all units in the rooms can be installed in connection with round switch boxes. Depending on the various structural characteristics of the building, surface, flush and cavity-wall mounting can be used. The wires are connected by means of screw plug-in terminals. A particular feature is the construction of the pull cord switch, which can be installed on the wall or the ceiling. This means that it is possible to install the pull cord switch over the lid supports of the WC in the disabled WC.

Supply Network

For the wiring of the call system hospicall P7, the telecommunication cable type IY(St) Y is sufficient. Special system cables are not required. This means that, above all, the use of existing cables when renovating is a great economic advantage. Apart from the wires for the current supply (24V, GND), the data lines and speech lines each require a twisted pair of wires. The length of the wire can thereby be up to 1000 m.

Safety

Since with a call system one is dealing with safety equipment, the system hospicall P7 is fitted with different safety functions. On the one hand, short-circuit-proof inputs protect the electronics if wiring errors occur in the installation phase; on the other hand, the central hierarchical system structure guarantees the basic functions of the release and indication of calls even if individual modules fail. As the smallest unit, an individual room works here in the so-called emergency mode, by which the call release is indicated optically outside the room via the indicator lamp and in the rooms with set presence the call is displayed in text form with the call location. System faults are indicated immediately to the care staff as well as to the service personnel via the various display units. Thereby, the system can also be supported through remote maintenance by external service technicians.

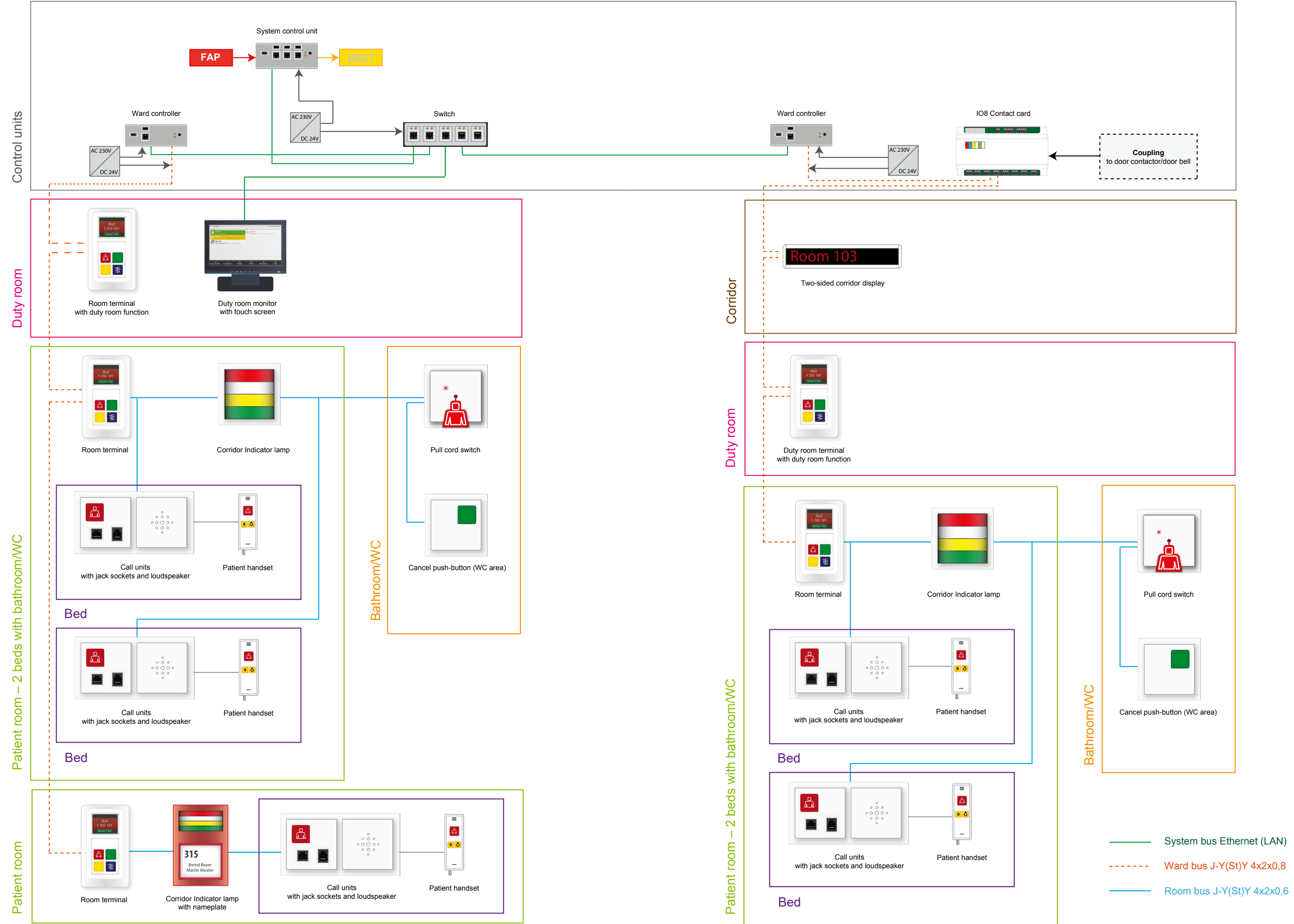


Operation

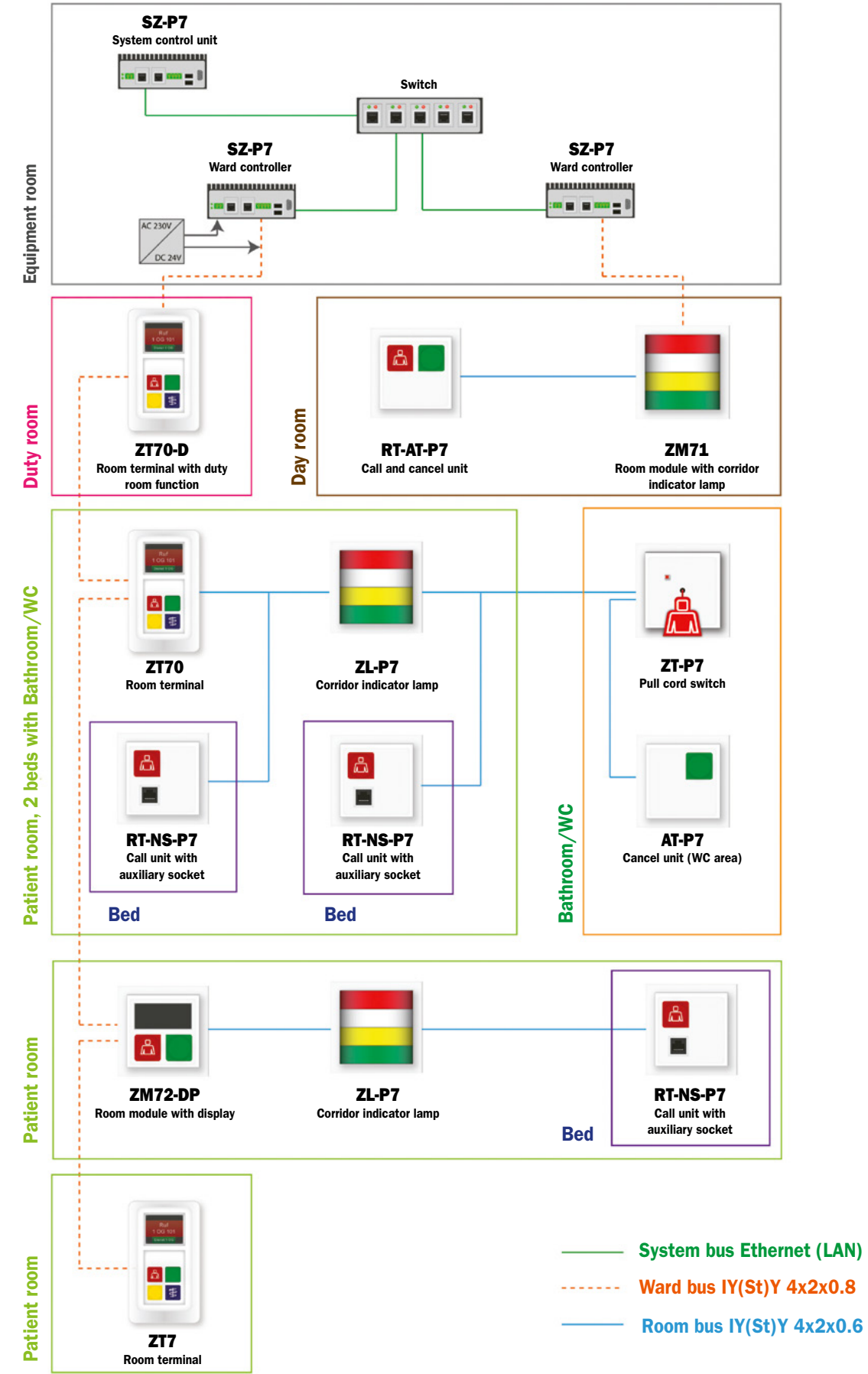
The call system also proves its worth in operation through its economic advantages. On the one hand, the energy-saving technology of the LED corridor indicator lamps leads to less energy consumption than for conventional lamps, and on the other hand, maintenance expenditure is reduced since the operating life of LED's is up to 20 times longer than that of the previously used piston lamps or soffits.



P7 System Overview (with Speech Function)



P7 System Overview (without Speech Function)



Easy Installation

The entire installation of the individual system components occurs via a new installation concept by "Plug-and-Play". This makes the whole installation process noticeably easier.

The possibility of mistakes is almost impossible and the simplified maintenance and administration of the system contribute to more efficiency.



P7 System Control Unit

The P7 System Control Unit is the master control unit for the entire system and performs the necessary monitoring functions as well as inter-ward communication. The system control unit establishes the connection to the cross-linked computer architecture via a LAN connection.



This connection enables system configuration and data exchange with optionally available workstations on the wards. If required, data can also be exchanged with existing information systems. On request, appropriate hardware and software interfaces are available for forwarding call information to messaging systems (pagers, wireless DECT telephone systems etc.). System configuration is enabled via LAN connection using standardised browser technology.

The P7 System Control Unit is equipped with modern processor technology and consists of a computer and a fuse holder for top hat rail mounting. No movable storage media are used. The system and operating data are stored in non-volatile memory media in flash technology. Likewise, the system control unit comprises the corresponding software for call and presence logging. The data is stored in the system control unit. Protocol evaluation can be made at any connected duty room monitor or on-site PC via a standard LAN connection. Remote maintenance is possible for the on-site PC via standard LAN connection.

The system control unit includes:

- ☐ Software for call and presence logging, as well as protocol evaluation
- ☐ Configuration software for programming the system parameters of the nurse call light system

TECHNICAL DATA:

Dimensions (W x H x D):	45 x 110 x 90 mm
Power supply:	Power max. 10 Watt Input voltage 24 Volt
Installation:	Mounted on DIN top hat rail
Order number:	30 01 02
Type:	SSZ-P7-Typ5

Mobile call display

Messages can be forwarded to an Android mobile phone for viewing and processing. The messages are also indicated even though the background application or lock screen is enabled. A prerequisite for this function is blanket WLAN coverage throughout the entire facility.

Order number:	30 09 06
Type:	SOFT-ANZEIGE-APP

SIP-Gateway

The SIP gateway connects the call system to the telecommunications system. Calls can be queried and addressed with mobile telephone devices in other associated rooms or by other beds.

FEATURES:

☐ SIP gateway for connection to the telecommunications system	
☐ Speech channel per ward controller	
Order number:	30 09 02
Type:	SOFT-SIP-P7

FAP Interface

For the system control unit to connect the call system to the fire alarm system using ESPA 4.4.4. protocol.

Order number:	30 09 01
Type:	SOFT-BMA-P7

DECT Interface

For the system control unit for connection of the call system to the control unit of a DECT system or to the message server of a telecommunications system with integrated DECT devices using ESPA 4.4.4 protocol.

Order number:	30 09 00
Type:	SOFT-DECT-P7

Graphic message display

Call and presence display in a ward graphic.

Order number:	30 09 07
TYPE:	SOFT-STATIONSPLAN

Interface DCF77 ISO

The DCF77 module consists of software and hardware components for coupling the DCF77 signal to the patient call system P7 via an interface on the system central control unit P7.

Order number:	39 10 03
TYPE:	DCF-SW-HW-ISO



19” Bracket

With DIN rail for installation of the control technology in 19” cabinet (or similar).

Order number:	32 09 00
Type:	19”-TRÄGER-3HE



Isolator

The isolator is used when mounting an additional top hat rail onto the 19-inch bracket (Order number 320900) and intended for electrical isolation of central nurse call light components to DIN 0834 in a 19-inch cabinet.

Order number:	32 09 10
Type:	ISOLATOR



SBUS Splitter

The P7-SBus splitter is the solution for star-shaped cabling already in place at the customer’s facility. The ward bus can now be divided into up to 8 lines with a maximum of 60 sharing units each.

FUNCTION:

- Cabling of audio & data in the ward data bus, each via separate splitters
- For use as a repeater in systems without speech function in case of long distances
- Two stage cascading to increase the number of spurs (max. 2 splitters between ward bus unit and ward controller)

TECHNICAL DATA:

Connections:	10 double-pole screw terminals for power supply, primary connection to the central unit and connection of the spurs
Number of bus sharing units:	max. 60
Number of harnesses per structure:	max. 8
Dimensions:	121 x 55 x 24 mm
Colour:	silver, similar to RAL 9006

Order number:	30 00 30
Type:	SBUS-SPLITTER-P7



RS232 Isolator 5kV

The RS232-ISO converter has been designed to protect against incalculable currents and voltages via the RS232 line of a medical facility. It enables the electrical isolation between devices for medical equipment and systems according to DIN EN 60601-1. The converter can be easily inserted into an existing cabling concept and behaves completely transparently. An external power source is not required for operation.

TECHNICAL DATA:

Standards:	EIA/TIA RS-232 CCITT V.24 Standard
Data throughput:	300bps – 912000bps
Power input:	< 10mA (drawn at the interface)
Connections:	RS-232 DCE/ RS-232 DTE
Electric strength:	5.000Vrms (AC) for longer than 1 min. (increased isolation)
ESD resistance:	15kV
Surge protection:	600W/sec
Conforms to the following standards:	IEC / DIN EN 60601-1 / DIN EN 60950-1 + IEC

MECHANICAL DETAILS:

Dimensions:	62.8 x 33.8 x 17.8 mm
Material:	PC-ABS
Colour:	black

Order number:	37 41 21
Type:	RS232-ISO-KONVER-5KV





Mains Adapter 24V 5A

For the power supply of the P3/P7 call systems.

- ☐ Closed design
- ☐ Contact-protected screw connections
- ☐ Current limiting overload protection, auto recovery, short-circuit proof
- ☐ Integral noise filter, minimal ripple
- ☐ Integral earth fault monitoring
- ☐ Including miniature-fuse holder for top hat rail mounting for secondary protection
- ☐ Fault / power failure indication in accordance with DIN VDE 0834 Parts 1+2
- ☐ DIN EN 60601-1/2xMOPP

TECHNICAL DATA:

Dimensions (W x H x D):	146 x 205 x 100 mm
Output voltage:	24.5 V DC
Output current:	5 A
Input voltage:	90-265 V AC, 47-63 Hz
Input current:	0.7 A (230V AC)
Installation:	Mounted on 35 mm DIN rail
Weight:	0.92 kg
Order number:	32 04 01
Type:	NG-5A-TYP4



Mains Adapter 24V 10A

For the power supply of the P3/P7 call systems

- ☐ Closed design
- ☐ Contact-protected screw connections
- ☐ Current limiting overload protection, auto recovery, short-circuit proof
- ☐ Integral noise filter, minimal ripple
- ☐ Integral earth fault monitoring
- ☐ Including miniature fuse-holder for top hat rail mounting for secondary protection
- ☐ Fault / power failure indication in accordance with DIN VDE 0834 Parts 1+2
- ☐ DIN EN 60601-1/2xMOPP

TECHNICAL DATA:

Dimensions (W x H x D):	146 x 205 x 100 mm
Output voltage:	24.5 V DC
Output current:	10 A
Input voltage:	90-265 V AC, 47-63 Hz
Input current:	1.3 A (230V AC)
Installation:	Mounted on 35 mm DIN rail
Weight:	1.56 kg
Order number:	32 04 11
Type:	NG-10A-TYP4



Power Rectifier with UPS Module 24V, 5A, incl. Rechargeable Battery

For the power supply of the P3/P7 call systems

- ☐ Rectifier with integrated UPS module comprising:
 - ☐ mains adapter, UPS module
- ☐ Ensures uninterrupted output coupling to battery in case of total power failure
- ☐ With automatic total battery discharge protection
- ☐ Automatic battery testing
- ☐ Temperature-controlled battery-charging
- ☐ Earth fault monitoring
- ☐ Including miniature-fuse holder for top hat rail mounting for secondary protection
- ☐ Fault / power failure indication in accordance with DIN VDE 0834 Parts 1+2
- ☐ DIN EN 60601-1/2xMOPP

TECHNICAL DATA:

Dimensions (W x H x D):	146 x 205 x 100 mm
Output voltage:	24.5 V DC
Output current:	5 A
Input voltage:	90-265 V AC, 47-63 Hz
Input current:	0.7 A (230V AC)
Installation:	Mounted on 35 mm DIN rail
Weight:	8.5 kg
Order number:	32 04 49
Type:	NG-USV-5A-SET4

Rechargeable Battery for BM-5A-TYP4

Order number:	32 04 55
Type:	ERSATZAKKU-TYP4



Power Rectifier with UPS Module 24V, 10A, incl. Rechargeable Battery

For the power supply of the P3/P7 call systems

- ☐ Rectifier with integrated UPS module comprising:
 - ☐ mains adapter, UPS module
- ☐ Ensures uninterrupted output coupling to battery in case of total power failure
- ☐ With automatic total battery discharge protection
- ☐ Automatic battery testing
- ☐ Temperature-controlled battery-charging
- ☐ Earth fault monitoring
- ☐ Including miniature-fuse holder for top hat rail mounting for secondary protection
- ☐ Fault / power failure indication in accordance with DIN VDE 0834 Parts 1+2
- ☐ DIN EN 60601-1/2xMOPP

TECHNICAL DATA:

Dimensions (W x H x D):	146 x 205 x 100 mm
Output voltage:	24.5 V DC
Output current:	10 A
Input voltage:	90-265 V AC, 47-63 Hz
Input current:	1.4 A (230V AC)
Installation:	Mounted on 35 mm DIN rail
Weight:	12 kg
Order number:	32 04 59
Type:	NG-USV-10A-SET4

Rechargeable Battery for BM-10A-TYP4

Order number:	32 04 56
Type:	ERSATZAKKU-TYP4

Ward Controller P7

The ward controller is the central control unit for any ward and regulates optical and acoustic call signalling in the respective rooms. by communicating with the terminals, modules, displays and interfaces via the ward data bus. It checks the function of the connected units and reports faults in devices or lines.

The ward controller supports a ward's care organisation and provides options of dividing it into any number of care groups. Rooms from other wards can also be integrated. The ward controllers are connected to the system control unit via the system bus.

- Functions:
- ☐ Optical and acoustic call processing
 - ☐ Monitoring connected devices and lines

MECHANICAL DETAILS:

Dimensions (W x H x D):	40 x 110 x 90 mm
Power supply:	Electrical power max. 15 Watt Input voltage 24 V DC
Interfaces:	☐ Ward bus to the room terminals ☐ System bus to central control unit
Installation:	Mounted on DIN top hat rail
Order number:	30 00 12
Type:	SZ-P7-TYP5



Standalone Ward Controller P7

As described above, but with additional functionality of the system control unit P7. Connecting further ward controllers is excluded.

MECHANICAL DETAILS:

Order number:	30 01 12
Type:	SZ-P7-AU TYP5

Serial Interface

For connection of serial interfaces like BMA and DECT, e.g. via ESPA 4.4.4 protocol.

Order number:	37 41 22
Type:	IF-SERIELL

Galvanic Ethernet Isolator

This device has been designed to protect patients and nursing staff against unpredictable electrical currents via the network wiring of a medical facility. This is a prerequisite for the safe operation of a device in the patient environment. The isolator was developed for galvanic network isolation for medical electrical devices and systems and to meet the requirements of IEC60601-1 and IEC60950-1. The isolation ensures non-restrictive behaviour in the network. The installation is implemented by simply inserting the isolator into an existing network cabling. An external power source is not required. There is no need to install drivers for operation.

TECHNICAL DATA:

Data throughput:	10/100/1000 Mbit/S
Electric strength:	4,000Vrms (AC) for longer than 1 min./5656V 50/60Hz for longer than 1 min.
Isolation:	Increased isolation at 250 Vrms. operating voltage
Conforms to the following standards:	IEC / DIN EN 60601-1 / and IEC /DIN EN 60950-1

MECHANICAL DETAILS:

Dimensions:	72 x 50 x 22 mm
Colour:	black
Order number:	30 00 22
Type:	ETHERNET-TRENNER



Ethernet Switch 8 Port

For coupling up to 7 units: ward controllers, duty room monitors, duty room consoles or ward PCs already in place for call notification via LAN interface with the system control unit P7.

MECHANICAL DETAILS:

Dimensions (W x H x D): 140 x 95 x 37 mm	
☐ 8-port 10 / 100 Mbps Auto MDI/MDI-X RJ45	
☐ Redundant current supply: 24 V DC with polarity reversal protection function	
☐ IP 30 protection with metal housing	
☐ Mounted on DIN rail (top hat rail) or wall mounted	
☐ Operating temperature: -40 to 75°C	
Colour:	dark grey
Order number:	30 00 21
Type:	SWITCH-8-P7



Ethernet Switch 5 Port

For coupling up to 4 units: ward controllers, duty room monitors, duty room consoles or ward PCs already in place for call notification via LAN interface with the system control unit P7.

MECHANICAL DETAILS:

Dimensions (W x H x D): 140 x 95 x 37 mm	
☐ 5-port 10 / 100 Mbps Auto MDI/MDI-X RJ45	
☐ Redundant current supply: 24 V DC with polarity reversal protection function	
☐ IP 30 protection with metal housing	
☐ Mounted on DIN rail (top hat rail) or wall mounted	
☐ Operating temperature: -40 to 75°C	
Colour:	dark grey
Order number:	30 00 20
Type:	SWITCH-5-P7



Duty Room Monitor

The hospicall duty room monitor P7 is a 16:9 touch screen PC for extended display and operation of the P7 call system. This extension enables uncomplicated and fast processing of calls and also includes additional functions. The intuitive menu/system guidance ensures rational processes in everyday nursing routine and noticeably reduces the staff's workload.

It is connected to the Ethernet system bus (LAN 1) via a separate bus junction box.



FUNCTIONS:

Separate staff call and presence indication	✓
Setting up speech communication with individual rooms or beds (only in combination with the P7 call system with speech function) and ZT7(-D) at the installation site)	✓
Linking options	✓
Information about current links and services	✓
General announcements	✓
Retrieval of call log data with individual selection options	✓
Intuitive operation via 15.6" touch screen in 16:9 format	✓
Fault notification	✓

MECHANICAL DETAILS:

Dimensions (L x W x H):	394 x 257 x 57 mm
Protection class:	Class II/IP65, IPX1 housing
Material:	plastic
Housing:	PC with touch screen, pedestal and connecting cables
Order number:	30 02 06
Type:	DZM7 Monitor



Room Terminal Duty Room with Display with/without Speech Function

The room terminal for duty room is the central control and operating unit for the duty room. Large membrane-covered push-buttons for presence marking as well as for call/emergency call release are available for the care staff. Targeted important information for the care staff is indicated via a backlit, colour, graphic touch-screen display. Thereby, the touch-screen can be used to call up individual additional functions and to link wards linked together. For optical call indication in the corridor, a corridor indicator lamp or a nameplate with integrated corridor indicator lamp can be connected to the duty room terminal via the room bus. Via the ward bus, the duty room terminal of a ward is connected to the associated ward controller. A loudspeaker and microphone enable voice communication with residents, patients and care staff by using the latest DSP technology and digital voice transmission.



Room terminal duty room with display and speech function



Room terminal duty with RT-AW and speech function



Room terminal duty without speech function



Room terminal duty with RT-AW without speech function

FUNCTIONS:

Presence / cancel push-buttons	green
With remind lamp	green
Presence push-button with remind lamp	yellow
Call / emergency call push-button with nurse symbol and reassurance lamp	red + red
Doctor call push-button with doctor symbol and reassurance lamp	blue
Call indication via colour graphic touch-screen display	✓
Acoustic call forwarding through noise generator	✓
Emergency mode by failure of data traffic	✓
Ward linking via graphic touch-screen display	✓
Loudspeaker and microphone	✓
Acoustic and optical indication of faults in room via display	✓

green	green	green
green	green	green
-	yellow	-
red + red	red + red	red + red
-	blue	-
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	-	-
✓	✓	✓

MECHANICAL DETAILS:

Dimensions (L x W x H):	150 x 100 x 30 mm
Protection class:	IP40
Material:	PC-ABS
Housing:	white, similar to RAL 9010
Call push-button:	red, similar to RAL 3000
Doctor call push-button:	blue, similar to RAL 5010
Presence push-button:	green, similar to RAL 6018
Presence push-button:	yellow, similar to RAL 1023
Connection:	☐ Ward bus to ward controller ☐ Room bus ☐ Audio bus
Installation: The room terminal is connected to the supply network by means of screw / plug-in terminals and then clipped into the connection board.	
Connection board for duty room terminal included in delivery	✓
Order number:	30 05 20
Type:	ZT7-D

150 x 100 x 30 mm	150 x 100 x 30 mm	150 x 100 x 30 mm
IP40	IP40	IP40
PC-ABS	PC-ABS	PC-ABS
white, similar to RAL 9010	white, similar to RAL 9010	white, similar to RAL 9010
red, similar to RAL 3000	red, similar to RAL 3000	red, similar to RAL 3000
-	blue, similar to RAL 5010	-
green, similar to RAL 6018	green, similar to RAL 6018	green, similar to RAL 6018
-	yellow, similar to RAL 1023	-
☐ Ward bus to ward controller ☐ Room bus ☐ Audio bus	☐ Ward bus to ward controller ☐ Room bus	☐ Ward bus to ward controller ☐ Room bus
✓	✓	✓
✓	✓	✓
30 05 21	30 05 25	30 05 26
ZT7-D2T	ZT70-D	ZT70-D2T

Connection Board for Room Terminal

Included in delivery



Table Top Stand for Duty Room Terminal

The table top stand with a 2 m connection cable is intended to accommodate the ward's duty room terminal which is plugged into the stand and then locked into place. A separate bus junction box serves to connect the duty room terminal with table top stand with the ward bus.

Dimensions (L x W x H):	200 x 120 x 100 mm
Protection class:	Class IP40
Colour:	milky white, similar to RAL 9010
Installation:	via plug-in connector in bus junction box
Order number:	30 02 15
Type:	TISCHPULT P7

Room Terminal with Display with / without Speech Function

The room terminal is the central control and operating unit for the patient / resident room. Large membrane-covered push-buttons with clear pressure points for presence marking as well as for call/emergency call release provide a good tactile feel. The colour display of the room terminal is supplied with a touch-screen function, so that speech communication can be set up with the patient or person releasing the call by touching the displayed call. The most important information is written large, so that it is easily readable from a distance and easy and secure operation is guaranteed. For optical indication of a call in the corridor, a corridor indicator lamp or a nameplate with integrated corridor indicator lamp can be connected to the room terminal via the room bus. Via the ward bus, the room terminal of a ward is connected to the associated ward controller. A loudspeaker and microphone enable voice communication with residents, patients and care staff by using the latest DSP technology and digital voice transmission.



Room terminal P7



Room terminal P7 with RT-AW



Room terminal P7 without speech function



Room terminal P7 without speech function with RT-AW

FUNCTIONS:

Presence / cancel push-buttons	green
Remind lamp	green
Presence push-button with remind lamp	yellow
Call / emergency call push-button with nurse symbol and reassurance lamp	red + red
Doctor call push-button with doctor symbol and reassurance lamp	blue
Call indication via colour graphic touch-screen display	✓
Acoustic call forwarding through noise generator	✓
Emergency mode by failure of data traffic	✓
Control of up to 16 active room bus clients	✓
Monitoring of connected call release elements	✓
Acoustic and optical indication of faults in room via display	✓
Loudspeaker and microphone	✓

green	green	green
green	green	green
-	yellow	-
red + red	red + red	red + red
-	blue	-
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	-	-

MECHANICAL DETAILS:

Dimensions (L x W x H):	150 x 100 x 30 mm
Protection class:	IP40
Material:	PC-ABS
Housing:	white, similar to RAL 9010
Call push-button:	red, similar to RAL 3000
Doctor call push-button:	blue, similar to RAL 5010
Presence push-button:	green, similar to RAL 6018
Presence push-button:	yellow, similar to RAL 1023
Connection:	☐ Ward bus to ward controller ☐ Room bus to the call units (max. 16) in room ☐ Audio bus
Installation: The room terminal is connected to the supply network by means of screw / plug-in terminals and then clipped into the connection board.	
Connection board for duty room terminal included in delivery.	✓
Order number:	30 05 10
Type:	ZT7

150 x 100 x 30 mm	150 x 100 x 30 mm	150 x 100 x 30 mm
IP40	IP40	IP40
PC-ABS	PC-ABS	PC-ABS
white, similar to RAL 9010	white, similar to RAL 9010	white, similar to RAL 9010
red, similar to RAL 3000	red, similar to RAL 3000	red, similar to RAL 3000
-	blue, similar to RAL 5010	-
green, similar to RAL 6018	green, similar to RAL 6018	green, similar to RAL 6018
-	yellow, similar to RAL 1023	-
☐ Ward bus to ward controller ☐ Room bus to the call units (max. 16) in room ☐ Audio bus	☐ Ward bus to ward controller ☐ Room bus to the call units (max. 16) in room	☐ Ward bus to ward controller ☐ Room bus to the call units (max. 16) in room
✓	✓	✓
✓	✓	✓
30 05 11	30 05 15	30 05 13
ZT7-2T	ZT70	ZT70-2T

Room Modules

The room module is the central control unit for a room. The operating elements of a room are connected via the room module. Via the ward bus, the room modules are connected to a ward with the corresponding ward controller, as well as with each other. Mixed operation with room terminals and other room modules is possible.



Room module with 4-way LED indicator lamp and bed recognition



Room module with call and presence push-buttons



Room module with call and presence push-buttons and display



Room Module with Blank Cover

The operating elements of a room are connected via the room module. Via the ward bus, a ward's individual room modules are connected both with the corresponding ward controller and with each other.

Mixed operation with room terminals and other room modules is possible.

FUNCTIONS:

Display of call / emergency call / WC call	red/white	-
Display of presence	green/yellow	-
Call / emergency call release via call push-button with nurse symbol	-	red
Orientation / reassurance lamp	-	red
Call cancellation / presence marking via cancel / presence push-button	-	green
Remind / presence lamp	-	green
Emergency mode by failure of data traffic	✓	✓
Acoustic call forwarding through noise generator	✓	✓
Indication of faults in the room	✓	✓
Monitoring of connected call release elements	✓	✓
Display 2 x 8 characters for indication of call location and call type	-	-

MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 x 15 mm	81 x 81 x 15 mm
Protection class:	IP40	IP40
Material:	PC-ABS	PC-ABS
Colour:	white, similar to RAL 9010	white, similar to RAL 9010
Call push-button with nurse symbol:	-	red, similar to RAL 3000
Cancel / presence push-button:	-	green, similar to RAL 6018
Presence 2:	-	-
Doctor call push-button with doctor symbol:	-	-
Interfaces:	Ward bus for ward controller	Ward bus for ward controller
Outputs:	LED lamps	Buzzer, reassurance lamps, room bus
Inputs:	Active call units (max 16) on room bus	Active call units (max 16) on room bus
Installation:	Mounted in fm switch box DIN 49073. All connection terminals are colour-coded	
Delivery including cover plate and frame.	✓	✓
Order number:	30 05 30	30 05 40
Type:	ZM71	ZM72

-
-
red
red
green
green
✓
✓
✓
✓

81 x 81 x 15 mm
IP40
PC-ABS
white, similar to RAL 9010
red, similar to RAL 3000
green, similar to RAL 6018
-
-
Ward bus for ward controller
Buzzer, reassurance lamps, room bus
Active call units (max 16) on room bus
plug terminals.
✓
30 05 45
ZM72-DP

FUNCTIONS:

Emergency mode in case of data traffic failure
Monitoring connected call activation elements
Indication of faults in the room
Interfaces: Ward bus to ward controller
Inputs: Active call units (max. 16) in the room bus
All connection terminals are of the colour-coded plug type

MECHANICAL DETAILS:

Dimensions:	81 x 81 x 15 mm
Protection class:	IP40
Colour:	white, similar to RAL 9010
Installation:	Mounted in fm switch box DIN 49073. All connection terminals are colour-coded plug terminals.
Order number:	30 05 30-Blind
Type:	ZM71-BLIND

Call Units

With call push-buttons in membrane keypad.



Call unit



Call and cancel unit



Call and cancel unit for separate WC call cancellation (acknowledgement only)



Call unit with auxiliary socket



Call and cancel unit for separate call cancellation (acknowledgement only)

FUNCTIONS:

Call / emergency call release via call push-button with nurse symbol	red	red
Orientation / reassurance lamp	red	red
Call cancellation / presence marking via cancel / presence push-button	-	green
Remind / presence lamp	-	green
Acoustic call forwarding through noise generator	-	✓
Socket for call / emergency call release via the attached operating device	-	-
Connection occurs via room bus	✓	✓

MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 x 15 mm	81 x 81 x 15 mm
Protection class:	IP40	IP40
Material:	PC-ABS	PC-ABS
Colour (cover plate and frame):	white, similar to RAL 9010	white, similar to RAL 9010
Call push-button with nurse symbol:	red, similar to RAL 3000	red, similar to RAL 3000
Cancel push-button:	-	green, similar to RAL 6018
Interfaces:	-	-
Installation: in fm switch box, DIN 49073	✓	✓
Delivery including cover plate and frame	✓	✓
Order number:	30 06 10	30 06 00
Type:	RT-P7	RT-AW-P7

	red		red		red
	red		red		red
	green		-		green
	-		-		-
	-		✓		-
	-		✓		✓
	✓		✓		✓

81 x 81 x 15 mm	81 x 81 x 15 mm	81 x 81 x 15 mm
IP40	IP40	IP40
PC-ABS	PC-ABS	PC-ABS
white, similar to RAL 9010	white, similar to RAL 9010	white, similar to RAL 9010
red, similar to RAL 3000	red, similar to RAL 3000	red, similar to RAL 3000
green, similar to RAL 6018	-	green, similar to RAL 6018
-	RJ-45 jack socket for connection of pear and multiple push-buttons or other portable operating devices	RJ-45 jack socket for connection of pear and multiple push-buttons or other portable operating devices
✓	✓	✓
✓	✓	✓
30 06 40	30 05 70	30 05 75
RT-AT-P7	RT-NS-P7	RT-AT-NS-P7



Display Module

The P7 display module is equipped with a red call push-button and a green presence push-button in membrane keypad, as well as a double-spaced display. The module is connected to the room bus by means of colour-coded screw/plug terminals.

FUNCTIONS:

Call / emergency call activation via call push-button
Orientation / reassurance lamp, red
Call cancellation / presence marking via presence push-button
Reminder / presence lamp, green
Display, 2x8 digits to indicate call type and origin
Acoustic call forwarding via tone generator
Interfaces: room bus to room module ZM71/ZM72

MECHANICAL DETAILS:

Dimensions:	81 x 81 x 15 mm
Protection class:	IP40
Material:	PC-ABS
Colour:	white cover plate and frame, similar to RAL 9010
Cover plate and frame included in the scope of supply	
Installation:	Mounted in fm switch box DIN 49073.
Order number:	30 08 20
Type:	DM-P7

Presence / Cancel Units

With presence / cancel push-button in membrane keypad.



Presence / cancel call push-button, green



Presence / cancel call push-buttons, green and yellow



Presence / cancel call push-button, yellow



Cancel push-button for separate WC call cancellation, green

FUNCTIONS:

Presence marking / call cancellation via presence / cancel push-button	green	green + yellow
Remind / presence lamp	green	green + yellow
Acoustic call forwarding through noise generator	✓	✓
WC call cancellation via cancel push-button	-	-
Connection occurs via room bus	✓	✓

yellow	-
yellow	-
✓	-
-	green
✓	✓

MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 x 15 mm	81 x 81 x 15 mm
Protection class:	IP40	IP40
Material:	PC-ABS	PC-ABS
Colour (cover plate and frame):	white, similar to RAL 9010	white, similar to RAL 9010
Presence / cancel push-button:	-	yellow, similar to RAL 1023
Presence / cancel push-button:	green, similar to RAL 6018	green, similar to RAL 6018
Installation: in fm switch box, DIN 49073	✓	✓
Delivery including cover plate and frame	✓	✓
Order number:	30 06 50	30 06 70
Type:	AW-P7	AW-AW2-P7

81 x 81 x 15 mm	81 x 81 x 15 mm
IP40	IP40
PC-ABS	PC-ABS
white, similar to RAL 9010	white, similar to RAL 9010
yellow, similar to RAL 1023	-
-	green, similar to RAL 6018
✓	✓
✓	✓
30 06 60	30 06 45
AW2-P7	AT-P7

Reader Module

The reader module has a radio symbol for personification of the nursing staff in patient rooms. Recognition of a transponder is signalled acoustically, i.e. with a single tone for activation and a double tone for cancellation. The device is connected via the room bus.

FUNCTIONS:

Call cancellation / presence marking via transponder
Acoustic call forwarding via tone generator



ACCESSORIES: Order number 322090 Transponder

MECHANICAL DETAILS:

Dimensions:	81 x 81 x 15 mm
Protection class:	IP40
Material:	PC-ABS
Colour:	white cover plate and frame, similar to RAL 9010

Cover plate and frame included in the scope of supply	
Order number:	30 07 90
Type:	AW-RD-P7

Transponder for Room Electronics

The transponder for "room electronics with reader module“ enables contactless activation or cancellation of a set call in a patient room by the nursing staff at a hospital or nursing facility. The transponder works according to the RFID principle.

TECHNICAL DATA:

Chip type:	EM4102/EM4200
Technology:	RFID (radio-frequency-identification)
Range:	typically 6 cm
Frequency:	125kHz
Protection type:	waterproof IP68

MECHANICAL DETAILS:

Installation:	Key fob
Dimensions:	45 x 30 x 1.5 mm
Colour:	black
Material:	Polyamide



Order number:	32 20 90
Type:	TP-ID

Call Units

Call units with call push-buttons in membrane keypad.

Pull Cord Switches

Pneumatic Call Unit



Doctor call push-button, blue



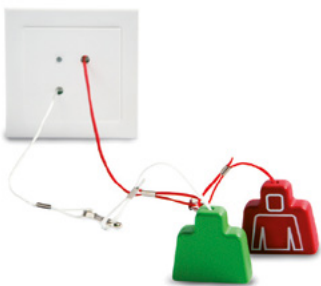
Call push-button red and doctor call push-button blue



Push-button combination call push-button, doctor call push-button, presence yellow and green



Pull cord switch is fitted with a red pull cord with knob and a red reassurance / orientation lamp



Pull cord switch with 2 m long pull cord with red knob with nurse symbol and call cancellation via white 80 cm long pull cord with green knob



Pneumatic call unit with pneumatic switch element. Call release through squeezing the red rubber ball on 2 m long clear plastic tube

FUNCTIONS:

Call / emergency call release via call push-button	-	red	red
Orientation / reassurance lamp	-	red	red
Doctor call release via doctor call push-button	blue	blue	blue
Presence 1	-	-	green
Presence 2	-	-	yellow
Call cancellation / presence marking via cancel / presence push-button	-	-	-
Call / emergency call release via pull cord switch	-	-	-
Call / emergency call release via rubber ball	-	-	-
Call cancellation via pull cord with knob	-	-	-
Connection to room bus via colour-coded screw / plug terminals			

-	-	-
red	red	red
-	-	✓
-	✓	-
-	-	-
-	-	-
red	red	-
-	-	red
-	green	-
✓	✓	✓

MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 x 15 mm	81 x 81 x 15 mm	81 x 81 x 15 mm
Protection class:	IP40	IP40	IP40
Material:	PC-ABS	PC-ABS	PC-ABS
Colour (cover plate and frame):	white, similar to RAL 9010	white, similar to RAL 9010	white, similar to RAL 9010
Call push-button with nurse symbol:	-	red, similar to RAL 3000	red, similar to RAL 3000
Doctor call push-button with doctor symbol:	blue, similar to RAL 5010	blue, similar to RAL 5010	blue, similar to RAL 5010
Presence 1:	-	-	green, similar to RAL 6018
Presence 2:	-	-	yellow, similar to RAL 1023
Installation: in fm switch box, DIN 49073	✓	✓	✓
Delivery including cover plate and frame:	✓	✓	✓
Order number:	30 06 20	30 06 30	30 07 00
Type:	DT-P7	RT-DT-P7	RT-DT-AW-AW2-P7

81 x 81 x 15 mm	81 x 81 x 15 mm	81 x 81 x 15 mm
IP54	IP54	IP54
PC-ABS	PC-ABS	PC-ABS
white, similar to RAL 9010	white, similar to RAL 9010	white, similar to RAL 9010
-	-	-
-	-	-
-	-	-
-	-	-
✓ wall and ceiling mounting	✓ wall and ceiling mounting	✓ wall and ceiling mounting
✓ incl. flexible cord 2m	✓ incl. flexible cord 2m	✓
30 06 80	30 06 85	30 06 90
ZT-P7	ZT-AT-P7	ZT-P7-PNEU-7

Replacement Pull Cord

With red knob with nurse symbol and clip	
Order number:	31 00 95
Type:	ZT-SCHNUR



Replacement Pull Cord, White

With green knob and clip	
Order number:	31 00 98
Type:	ZT-SCHNUR-WEISS



Call Units

Call units with call push-buttons in membrane keypad

Diagnostic Unit

Unit with 2 diagnostic sockets 4-pin



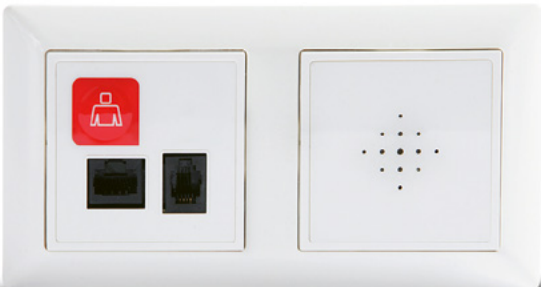
Unit with 2 diagnostic sockets 4-pin



Call push-button with auxiliary socket and DIA socket



Call push-button with auxiliary socket and loudspeaker as double unit



Call push-button with auxiliary socket, DIA socket and loudspeaker as double unit

FUNCTIONS:

Call / emergency call release via call push-button with nurse symbol	-	red
Orientation / reassurance lamp	-	red
Socket for call / emergency call release via the attached operating device	-	✓
Diagnostic socket	✓✓	✓
Loudspeaker unit	-	-
Connection: via colour-coded screw / plug terminals to the room bus		

MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 x 15 mm	81 x 81 x 15 mm
Protection class:	IP40	IP40
Material:	PC-ABS	PC-ABS
Colour (cover plate and frame):	white, similar to RAL 9010	white, similar to RAL 9010
Call push-button with nurse symbol:	-	red, similar to RAL 3000
Interfaces:	2 x RJ10 sockets for connection of technical medical device	RJ45 socket for connection of pear and multiple push-buttons or other portable operating devices
		RJ10 socket for connection of technical medical device
Installation: in fm switch box, DIN 49073. All connection terminals are colour-coded screw / plug terminalsführt		
Delivery including cover plate and frame:	✓	✓
Order number:	30 07 60	30 05 80
Type:	DIA2-P7	RT-NS-DIA-P7

Loudspeaker Unit

The loudspeaker unit is used for the free speech communication when the patient handset is in the wall bracket.

The connection is via the audio unit next to it by the bed, e.g. call unit with auxiliary socket.



MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 x 15 mm
Protection class:	IP40
Material:	PC-ABS
Colour:	white, similar to RAL 9010
Installation: in fm switch box, DIN 49073 via colour-coded screw / plug terminals	
Order number:	30 08 50
Type:	LS-P7



Audio Isolator

The audio isolator serves to feed the audio signal into the call system. A transformer is used which ensures a reliable potential separation between the audio source / call system in the patient environment.

TECHNICAL DATA:

Audio input:	3.5 mm jack bush
Conforms to the following standards: IEC/DIN EN 60601 and IEC/DIN EN 60950-1	

MECHANICAL DETAILS:

Dimensions:	81 x 81 x 50 mm
Material:	PC-ABS
Colour:	Cover plate and frame: white, similar to RAL 9010
Installation:	Mounted in fm switch box DIN 49073.
Order number:	30 08 55
Type:	AUDIO-ISOLATOR-P7

Multiple Push-Button – Tone
incl. Self-releasing Protective Adapter

The Multiple Push-Button – Tone is equipped with a call push-button, two light push- buttons, two volume control buttons and a jack socket to connect a head- phone. Included in the supply is a 2 m connection cord and a self-releasing protective adapter with an 8-pole plug for non-destructive plug disconnection.

FUNCTIONS:

Call / emergency call activation via red call push-button with nurse symbol
Orientation / reassurance lamp, red
2 Light push-buttons, yellow
2 Push-buttons for volume control, blue
1 Jack socket for headphone connection 3.5 mm

MECHANICAL DETAILS:

Dimensions (L x W x H):	120 x 46 x 22 mm
Protection class:	IP40
Material:	ABS
Housing:	white, similar to RAL 9010

Order number:	31 04 70
Type:	MT-TON

Call / Cancel Unit with Auxiliary Plug Contact and Diagnostic Socket

The call / cancel push-button with auxiliary plug contact and diagnostic socket has a red call button in a membrane keypad including a red reassurance lamp, and a green cancel button in a membrane keypad, as well as an 8-pole socket for the connection of pear push-buttons and multiple push-buttons, as well as a 4-pole diagnostic socket.

FUNCTIONS:

Call / emergency call activation via red call push-button
Orientation / reassurance lamp, red
Call cancellation via green cancel push-button
Socket for call / emergency call activation via connected consoles
Diagnostic call by activating a potential-free contact in a connected medical device

INTERFACES:

RJ45 Socket to connect pear and multiple push-button units or other mobile control panels
RJ10 Socket to connect a medical device

MECHANICAL DETAILS:

Dimensions:	81 x 81 mm
Protection class:	IP40
Material:	PC-ABS
Colour:	white cover plate and frame, similar to RAL 9010
Call push-button:	red with nurse symbol, similar to RAL 3000
Cancel push-button:	green, similar to RAL 6018



Wall Bracket for
Multiple Push-Button – Tone

Wall bracket for Multiple Push-Button & Patient Handset
Installation: Screwed or glued connection

MECHANICAL DETAILS:

Dimensions (L x W x H):	50 x 32 x 23 mm
Housing:	white, similar to RAL 9010

Order number:	31 04 47
Type:	WH-MT



Cover plate and frame included in the scope of supply

Installation: Mounted in fm switch box DIN 49073

Order number:	30 05 85
Type:	RT-AT-NS-DIA-P7



FUNCTIONS:

Call / emergency call activation via red call push-button
Orientation / reassurance lamp, red
Control of 2 light sources via connected multiple push unit
Audio signal volume control via control push-button of the connected MT-TON
Diagnostic call by activating a potential-free contact in a connected medical device

Call Unit with Auxiliary Plug
Contact and Tone

Functions identical with 300841, but without diagnostic socket

Order number:	30 08 40
Type:	RT-NS-TON-UP-P7

Call Unit with Auxiliary Plug
Contact, Diagnostic Socket and
Tone for Trilux Bedside Lights

The call unit with auxiliary plug contact, diagnostic socket and tone is a nurse call light system intended for installation in the Trilux ES 403 lights or Sanesca. It is equipped with a red call button, an 8-pin socket (RJ45) to connect the MT-TON multiple push-button, and a 4-pin socket (RJ10) to connect a medical device, enabling the transmission of an audio signal (TV tone).

FUNCTIONS:

Call / emergency call activation via red call push-button
Orientation / reassurance lamp, red
Control of 2 light sources via connected multiple push-button
Audio signal volume control via control push-button of the connected MT-TON
Diagnostic call by activating a potential-free contact in a connected medical device

Call Unit with Auxiliary Plug
Contact, Diagnostic Plug Contact
and Tone

The call unit with auxiliary plug contact and tone is equipped with a red call button and an 8-pin socket (RJ45) to connect the multiple push-button MT-TON, as well as a 4-pin diagnostic socket (RJ10), enabling the transmission of an audio signal (TV tone).

MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 x 15 mm
Protection class:	IP40
Material:	PC-ABS
Colour:	white cover plate and frame, similar to RAL 9010
Call push-button:	red with nurse symbol, similar to RAL 3000
Cancel push-button:	green, similar to RAL 6018

Cover plate and frame included in the scope of supply

Installation: Mounted in fm switch box DIN 49073

Order number:	30 08 41
Type:	RT-NS-DIA-TON-UP-P7

Call Unit with Auxiliary Plug Contact
and Tone for Trilux Bedside Lights

Functions identical with 300844, but without diagnostic socket

Order number:	30 08 43
Type:	RT-NS-TON-MVE-P7



MECHANICAL DETAILS:

Dimensions (L x W x H):	80 x 63 x 30 mm
Protection class:	IP40
Material:	PA/PC
Cover plate colour:	white, similar to RAL 9010

Order number:	30 08 44
Type:	RT-NS-DIA-TON-MVE-P7

Patient Handset P7

Patient handset with auto-release plug system for discreet two-way communication between the patient and the care staff.

Wall Bracket

In the wall bracket the patient handset is in the parked position, which results in voice communication being switched automatically from discreet to free two-way communication.



Patient handset P7



Wall bracket for Patient handset P7

FUNCTIONS:

Call / emergency call release via call push-button with nurse symbol:	red	-
Orientation / reassurance lamp	red	-
Light push-button for switching room light	yellow	-
Light push-button for switching reading light	yellow	-
Loudspeaker and microphone for discreet communication connection	✓	-

MECHANICAL DETAILS:

Dimensions (L x W x H):	125 x 42 x 20 mm	20 x 42 x 29 mm
Protection class:	IP40	IP40
Material:	PC-ABS	PC-ABS
Cover plate and frame:	white, similar to RAL 9010	white, similar to RAL 9010
Installation:	-	Screw or glue fixing
Delivery:	Incl. flexible cord 3m with auto-release protective adapter for non-destructive plug-out	
Order number:	30 05 90	30 05 91
Type:	PHG7	WH-PHG7

Connection Extension

Through the use of connection extensions with 7-pin plug and 7-pin coupling between the connection cord of an operating device and the protective adapter, the connection cords of the operating devices can be extended easily as required. Call-circuit monitoring enables each disconnection of a connector to be indicated immediately.



MECHANICAL DETAILS:

Length:	2 m
Protection class:	IP 40
Material:	PVC
Colour:	white, similar to RAL 9010
Order number:	31 04 40
Type:	ANSCHL-VERL-2M

Pear Push-Button / Multiple Push-Button



Pear push-button



Multiple push-button with one light button



Multiple push-button with two light buttons

red	red	red
red	red	red
-	-	yellow
-	yellow	yellow
-	-	-

110 x 40 x 22 mm	110 x 40 x 22 mm	110 x 40 x 22 mm
IP65	IP65	IP65
ABS	ABS	ABS
white, similar to RAL 9010	white, similar to RAL 9010	white, similar to RAL 9010
Pear and multiple push-buttons are delivered with 3m long flexible cord and 8-pin auto-release protective adapter for non-destructive plug-out		
31 04 01	31 04 11	31 04 21
BT-hc	BT-1LT-hc	BT-2LT-hc

Wall Bracket for Pear and Multiple Push-Buttons

Wall bracket for pear and multiple push-buttons. Mounting: screw or glue fixing.	
Order number:	31 04 46
Type:	WH-BT



Trapeze Bar Clip

Trapeze Bar Clip to connect the cable of a patient hand set to the trapeze bar

Dimensions (L x W x H):	39 x 66 x 44 mm
Colour:	white, similar to RAL 9010
Order number:	31 04 29
Type:	BETTGALGEN-CLIP



LED Corridor Indicator Lamps

The corridor indicator lamp has 4 lamp cells, which are fitted with white, red, green and yellow light-emitting diodes. White for indication of bathroom / WC calls.

Door Plate with LED Corridor Indicator Lamps

Nameplate with LED Corridor Indicator Lamps

In a homogeneous design for a homely ambience, with easily changeable nameplates without additional tools and corridor indicator lamps with high-grade LED's.



LED corridor indicator lamp white / red / green / yellow



Door plate with LED corridor indicator lamp white / red / green / yellow



Nameplate with LED corridor indicator lamp white / red / green / yellow



FUNCTIONS:

Display of call / emergency call	red	red
Display of Presence 1	green	green
Display of Presence 2	yellow	yellow
Display of bathroom / WC call	white/red	white/red

MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 x 35 mm	81 x 152 x 35 mm
Protection class:	IP40	IP40
Material:	PC-ABS	PC-ABS
Colour (cover plate and frame):	white, similar to RAL 9010	white, similar to RAL 9010
Connection:		To a room terminal or room module
Installation:	Mounted in fm switch box, DIN 49073	
Delivery including cover plate and frame:	✓	✓
Order number:	30 07 20	30 08 00
Type:	ZL-P7	TÜRSCHILD-ZL-P7

red
green
yellow
white

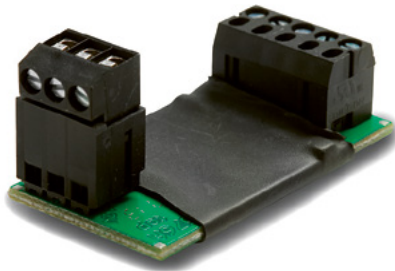
100 x 148 x 35 mm
IP40
PC/PA-GF
white, similar to RAL 9010
Snap-on fastening on supplied connection board for fixing to fm switch box DIN 49073
-
30 08 05
NAMEN-ZL-4-P7

Electronics for Connection to a Corridor Indicator Lamp white / red / green / yellow P7

Adapter for coupling of secondary light sources (24 V DC or 12 V DC) to a room terminal or room module P7. The adapter is supplied with shrinkage tubing and is placed in the fm switch box of the respective secondary light.

MECHANICAL DETAILS:

Dimensions (L x W x H):	43 x 23 x 22 mm
Material:	PC-ABS
Installation:	In fm switch box, DIN 49073
Order number:	30 07 25
Type:	ZL-FL-P7



Nameplate Service Set

Set consisting of: 100 sheets A4 card, white, fine perforated for easy separation of the nameplate inserts + 10 transparent covers, foiled, software for printing nameplate.

Order number:	31 07 01
Type:	NAMEN-ZL-S

Corridor Display, Single-Sided for Wall Mounting

Corridor Display, Double-Sided for Ceiling Mounting

With dot-matrix LED display for self-illuminating plain text display and integrated noise generator (buzzer).

FUNCTIONS DEPENDING ON CONFIGURATION:

Volume level time-related, infinitely variable, configurable
Time display, when no calls exist
Possibility of colour differentiation of display of calls (red) and time (green)

EQUIPPED WITH:

13-character LED display (per side)
Contrast-increased, anti-reflective front panel
Up to 13-character dot-matrix LED display
Buzzer
With integrated interface for ward bus

MECHANICAL DETAILS:

Model:	Corridor display, single-sided for wall mounting	Corridor display, double-sided for ceiling mounting
Dimensions (L x W x H):	660 x 100 x 65 mm	660 x 100 x 100 mm
Protection class:	IP 40	IP 40
Material:	steel plate / Al	steel plate / Al
Colour:	white, similar to RAL 9010	white, similar to RAL 9010
Installation:	wall mounted	Ceiling mounting, pendulum tubes (length): 500 mm, infinitely adjustable
Accessories:		Including baldachin and fastening material for mounting directly below the ceilings
Order number:	30 08 70	30 08 80
Type:	DP-WAND-P7	DP-DOPPEL-P7



Interface Door Intercom

The interface can be used as an independent door intercom or as an interface to a customer-installed door intercom. Activation occurs via the room bus of an assigned room module.

FUNCTION:

- ☐ Doorbell (only when covered by call push-button)
- ☐ Microphone amplifier with microphone and loudspeaker
- ☐ LED as “reassurance lamp”

OUTPUTS:

- ☐ Switching of an external LED e.g. as “call recognition”
- ☐ Relay for switching door opener

INPUTS:

- ☐ Opto-decoupled input for external doorbell
- ☐ Relay for loudspeaker bus for use as interface
- ☐ External microphone input for use as interface

MECHANICAL DETAILS:

Dimensions (L x W x D):	81 x 81 x 15 mm
Protection class:	IP40
Material:	PC-ABS
Colour cover plate and frame:	white, similar to RAL 9010
Installation:	In fm switch box, DIN49073
Delivery including cover plate and frame	
Order number:	30 07 55
Type:	IF-TUER-P7



I/O-2 Input / Output Module

The interface module has two individually configurable inputs and two individually configurable relay outputs, which can be used in floating or non-floating AC or DC as change-over contacts. Via the opto-decoupled inputs, external alarms (heating, FAP, emergency exit, lift etc.) with a switching voltage of 5 – 30 V AC/DC per contact can be registered in the call system. The relay outputs serve, e.g., to switch external devices (Venetian blinds, lamps, door magnets, horns etc.). The activation of the relay occurs via software according to the configuration in the system control unit. Each output relay can take a load of up to 1A. The switching of the interface module occurs via the room bus.

INPUTS:

- ☐ 2 x opto-decouplers input 5 – 30 V AC/DC

OUTPUTS:

- ☐ 2 x switch contacts max. 1A
- ☐ 2 x LED's for indication of freely programmable applications

MECHANICAL DETAILS:

Dimensions (L x W x D):	81 x 81 x 15 mm
Protection class:	IP40
Material:	PC-ABS
Colour cover plate and frame:	white, similar to RAL 9010
Installation:	In fm switch box, DIN49073
Delivery including cover plate and frame	
Order number:	30 07 50
Type:	IO2-P7



Current Impulse Switch

The current impulse switches are used for switching the room lighting or the reading light. The devices have their own galvanic separated current supply. Installation is either in a double flush mounted switch box or in medical supply units.

TECHNICAL DATA:

Dimensions (L x W x H):	85 x 42 x 32 mm
Operating voltage:	150-250 V, 50 Hz
Nominal switch rating:	6 A / 250 V AC

Current impulse switch with one contact	
Order number:	32 04 80
Type:	STST-01

Current impulse switch with two contacts	
Order number:	32 04 82
Type:	STST-02



I/O-2-AT Input / Output Module with Cancel Push-Button

The module has the same characteristics as the standard version of I/O-2.

The module has an additional green cancel push-button for the cancellation of incoming messages locally.

Order number:	30 07 51
Type:	IO2-AT-P7



I/O-8 Input / Output Module

The interface module has eight individually configurable inputs and eight individually configurable relay outputs, which can be used in floating or non-floating AC or DC as change-over contacts.

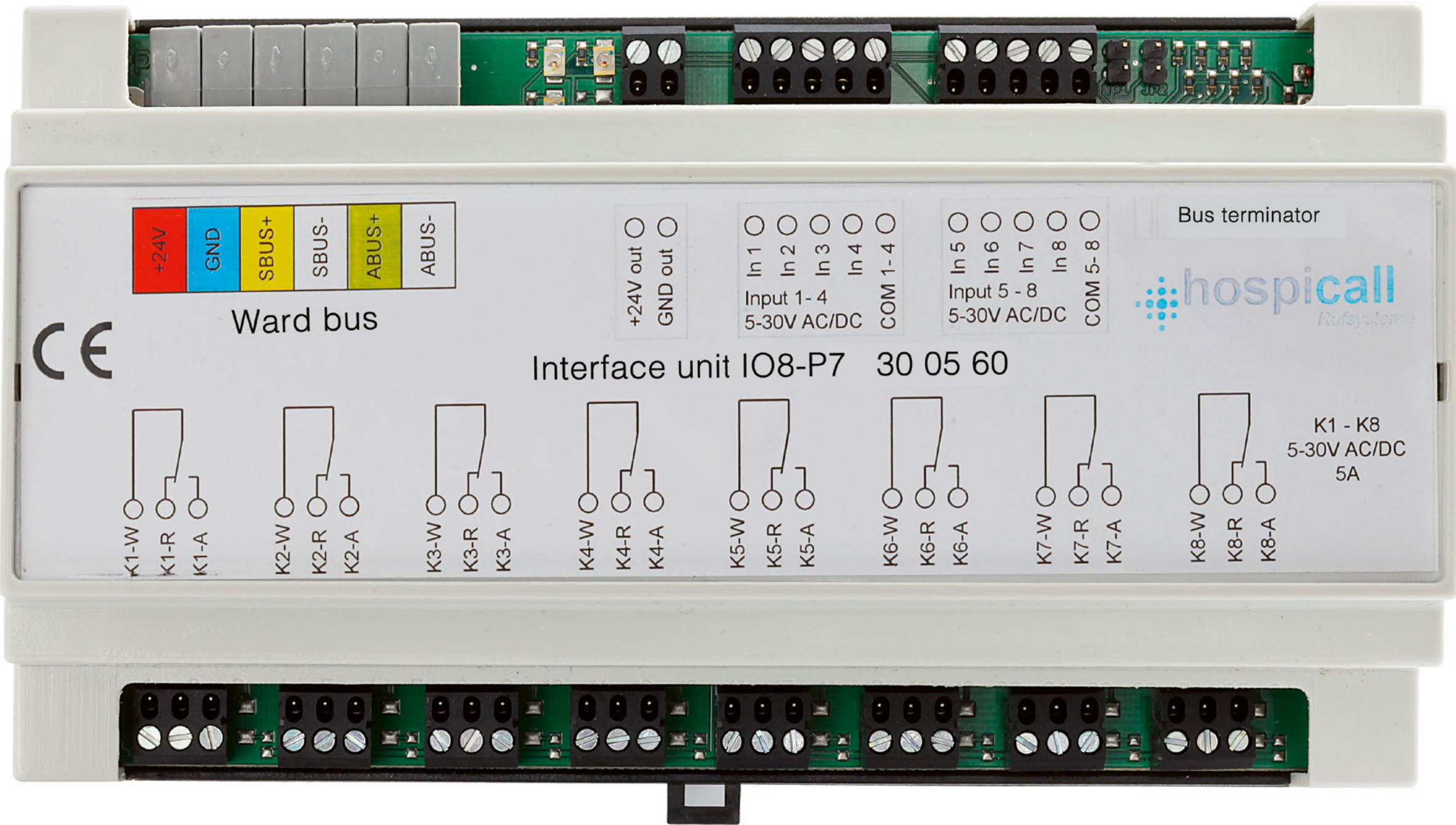
Via the opto-decoupled inputs, external alarms (heating, FAP, emergency exit, lift etc.) with a switching voltage of 5 – 30 V AC/DC per contact can be registered in the call system.

The relay outputs serve, e.g., to switch external devices (Venetian blinds, lamps, door magnets, horns etc.). The activation of the relay occurs via software according to the configuration in the system control unit. Each output relay can take a load of up to 8A.

The switching of the interface occurs via the ward bus.

MECHANICAL DETAILS:

Dimensions (L x W x H):	156 x 90 x 59 mm
Protection class:	IP40
Current supply:	via 24 V DC
Material:	PC-ABS
Colour cover plate and frame:	grey, similar to RAL 7035
Installation:	Mounted on DIN rail
Order number:	30 05 60
Type:	IO8-P7



Radio Sets

The radio sets consist of a pluggable receiver and a mobile transmitter for call release. The transmitter is available as a pendant transmitter or a wrist strap transmitter. The pluggable receiver is connected to a unit with an 8-pin auxiliary socket. A maximum of 32 transmitters can be assigned to a receiver. Frequency: 868.3 MHz

Note:
The radio set is an add-on to the call system P7. It does not fulfil the safety requirements of DIN VDE 0834.

Radio Set with Pendant Transmitter

Order number:	31 20 10
Type:	FUF12



Radio Set with Wrist Strap Transmitter

Order number:	31 20 50
Type:	FUF12-AMB



Radio Receiver 2

For connection to auxiliary socket P7 8-pin RJ-45

Order number:	31 20 20
Type:	FU2-STEU



Radio Receiver RJ-10

For connection to DIA socket P7 4-pin RJ-10

Order number:	31 20 60
Type:	FU2-STEU-RJ10



Radio Pendant Transmitter 2 with Strangulation Protection

Order number:	31 20 30
Type:	FU2-UMH



Radio Wrist Transmitter 2 with Fabric Wrist Strap

Order number:	31 20 40
Type:	FU2-AMB



Battery Replacement Set for Radio Transmitter

Consisting of: special key, sealing ring, 3 V battery (CR2032)

Order number:	31 01 95
Type:	FU-FI-BWS

Warning!
The radio transmitters of Series 2 are not compatible with older radio sets (different frequency).

Radio Set with Wrist Strap Transmitter

Comprising a wrist strap transmitter and a radio receiver 2 for connection to the 4-pin DIA socket.

Order number:	31 20 80
Type:	FUF12-RJ10-AMB



Radio Set with Pendant Transmitter

Comprising a pendant transmitter with strangulation protection, and a radio receiver 2 for connection to the 4-pin DIA socket.

Order number:	31 20 70
Type:	FUF12-RJ10-UHS





Sound Detector

The sound detector can initiate a call by directly pressing the push-button as well as via a corresponding noise level. The sensitivity is adjustable. The detector is fitted with a 2 m long connection cord and an RJ-45 connector.

EQUIPPED WITH:

- Call / emergency call release via noise level or red call push-button with nurse symbol
- Orientation / reassurance lamp, red
- Function indicator lamp, green

Order number:	31 04 60
Type:	SW-1



Sealing Flange for FM Inserts

With the sealing flange, the increased protection class IP44 can be achieved when using the fm inserts designed for wet rooms. The flange is inserted into the fm box underneath the insert between the support ring and the wall. This allows the moisture from above entering behind the frame to bypass the insert so that it can escape at the bottom without contacting electrical connections or components.

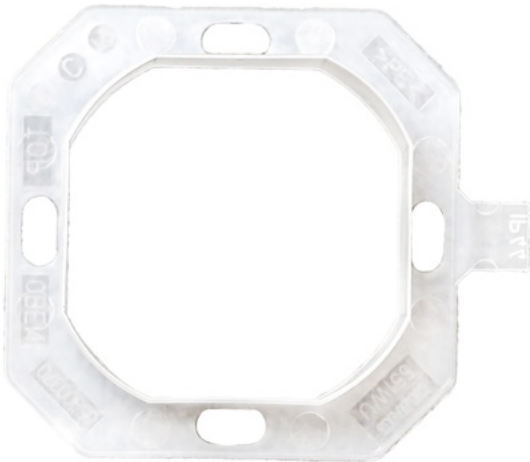
FUNCTION:

Compliance with the protection class in case of uneven walls
For devices with covers larger than 50 x 50 mm
Protection of fm inserts in wet rooms
Flexible material for easy installation around the fm insert
Pre-punched openings for screw fastening of the fm socket

MECHANICAL DETAILS:

Dimensions (L x W x H):	78 x 80 x 25 mm
Protection class:	IP44
Material:	PE
Colour:	transparent

Order number:	30 02 60
Type:	DF-UP



BUS Junction Socket

Both the duty room monitor and the console for the room terminal duty room are connected to the ward bus and the system bus via the bus junction socket featuring the 2 x 8 pole connector.

FUNCTIONS:

2x RJ45 Socket to connect the duty room monitor and console for the room terminal duty room

MECHANICAL DETAILS:

Dimensions (L x W x H):	81 x 81 mm
Protection class:	IP40
Material:	PC-ABS
Cover plate and frame included in the scope of supply: white, similar to RAL 9010	
Mounted in fm switch box, DIN 49073	

Order number:	30 02 10
Type:	AD-DZT7



Design Range

All push-buttons are supplied complete with cover plates with membrane push-buttons and cover frames in the AS500 ANTI-BAKTERIELL design from Jung, in white, similar to RAL 9010. All room terminals and nameplates with corridor indicator lamps are also typically supplied in white, similar to RAL 9010.

Other surface designs and colour options are available on request at an extra charge!

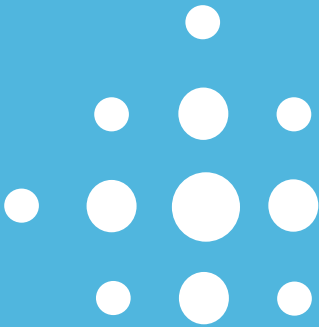
Please contact us for prices.

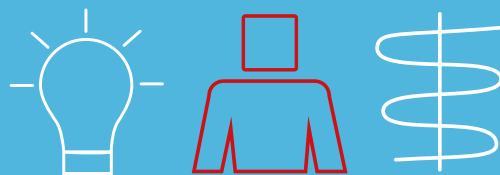
	JUNG	A flow	white	XXX-XXX-215
	JUNG	AS500	white	XXX XXX-201€
	JUNG	AS500	ivory	XXX XXX-202
	JUNG	A Creation	white	XXX XXX-216
	JUNG	A550	white	XXX XXX-217
	GIRA	Standard 55	pure white, glossy	XXX XXX-301
	GIRA	Standard 55	pure white, matt	XXX XXX-303
	GIRA	E2	pure white, glossy	XXX XXX-305
	GIRA	E2	pure white, matt	XXX XXX-304
	GIRA	Event	pure white, glossy	XXX XXX-315

	B. Berker	S.1	polar white, glossy	XXX XXX-503
	B. Berker	S.1	white glossy	XXX XXX-504
	BUSCH-JAEGER	Busch-balance SI	alpine white	XXX XXX-105
	merten	1-M	active white, glossy	XXX XXX-407
	merten	1-M	polar white	XXX XXX-406
	merten	M-Smart	active white, glossy	XXX XXX-405
	merten	M-Smart	polar white, glossy	XXX XXX-401
	merten	M-Pure	active white	XXX XXX-408
	merten	M-Pure	polar white	XXX XXX-409

We will gladly assist you.

P +49 2261 9583 - 100 • info@hospicall.com





...just press the button – and **help** is on the way!