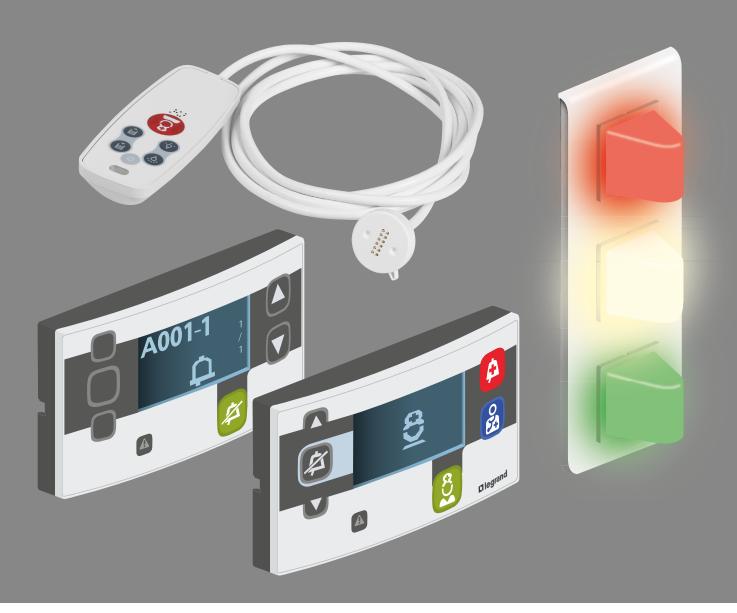
BUS/SCS NURSE CALL SYSTEM



INSTALLATION AND USER GUIDE



Topics

SPECIFICATION

Refer to pages 6 to 16

DEFINITION

- Operation pages 64 to 87
- For traceability, refer to the guide for the software 0 766 18
- Call priority and display pages 86 and 87

DESIGN

- Mimic diagram pages 6 to 16
- Technical data sheets pages 17 to 63
- Diagrams pages 88 to 115

INSTALLATION

- Electrician: refer to pages 6 to 16 and 88 to 115
- Telephonist: refer to pages 157 to 161

PROGRAMMING/CONFIGURATION

- In physical configuration (using configurators): refer to pages 116 to 125
- In virtual configuration (software programming): refer to pages 126 to 151

TRAINING

Refer to pages 64 to 87

Standard training courses can be taken in our approved Innoval centres

Project-specific training courses can be taken in our approved Innoval centres or on site

• COMMISSIONING AND ACCEPTANCE TESTING

- Commissioning: refer to pages 152 to 169
- Acceptance testing: refer to pages 64 to 87

OPERATION/TRACEABILITY

Refer to pages 64 to 87 For traceability, refer to the guide for the software 0 766 18 and pages 162 to 167

• USE

Refer to pages 64 to 87 and memo sheet LE05065xx

DIAGNOSTICS/TROUBLESHOOTING/ MAINTENANCE

Refer to pages 168 to 181

PRODUCT DEVELOPMENTS

Refer to pages 180 and 181

SYSTEM MODIFICATION

- Diagrams: refer to pages 88 to 115
- Physical configuration (using configurators): refer to pages 116 to 125
- Virtual configuration (software programming): refer to pages 126 to 151
- Operational check: refer to pages 64 to 85 and memo sheet LE05065xx

REPLACING AN ELIOCAD SYSTEM

Refer to pages 110 to 115



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BUS/SCS installation principle

DESCRIPTION OF THE SYSTEM ARCHITECTURE

Fundamental rules to follow when installing the BUS/SCS nurse call system

Patient call system products are associated with personal safety. They should therefore be installed by a qualified electrician, in strict accordance with the conditions of installation and the operating instructions.

A single protection device should be installed for the entire nurse call system (BUS, indicator and display unit power supply). If the entire installation is on the same bus (indicator power supply + BUS power supply), it is possible to install one protection device per ward and to separate the wards using an extension Cat. No. 0 766 10 (providing galvanic isolation), not connecting the indicator power supply cable.

To ensure continuous operation during a mains failure, connect the system to an uninterruptible power supply (generator set and/or inverter). If there is a mains failure longer than 300 ms, all calls prior to the cut may be lost.

Power supplies should be distributed at equal distances along the whole length of the BUS.

The nurse call system complies with VDE 0834-1/0834-2 (DIN 41050) standards.

EXAMPLE OF INSTALLATION

A ward can have a maximum of 150 rooms.

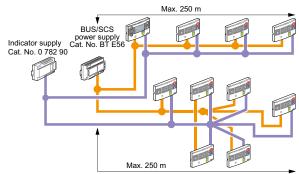
A ward can have an average of 50 rooms per power supply unit. A building can have 14 floors (or 14 wards).

IMPORTANT

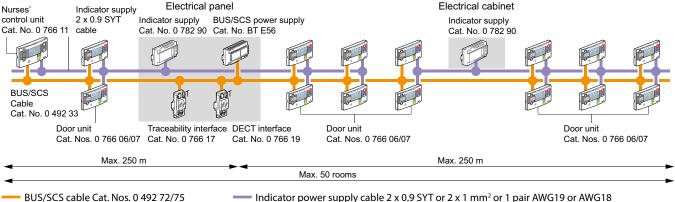
It is essential to install one and only one main nurses' control unit (Cat. No. 0 766 11) per ward.

Installation in a star (recommended)

See section: .Example of wiring for maximum BUS lengths.



Installation for a ward (1 main nurses' control unit 0 766 11 max./ward)



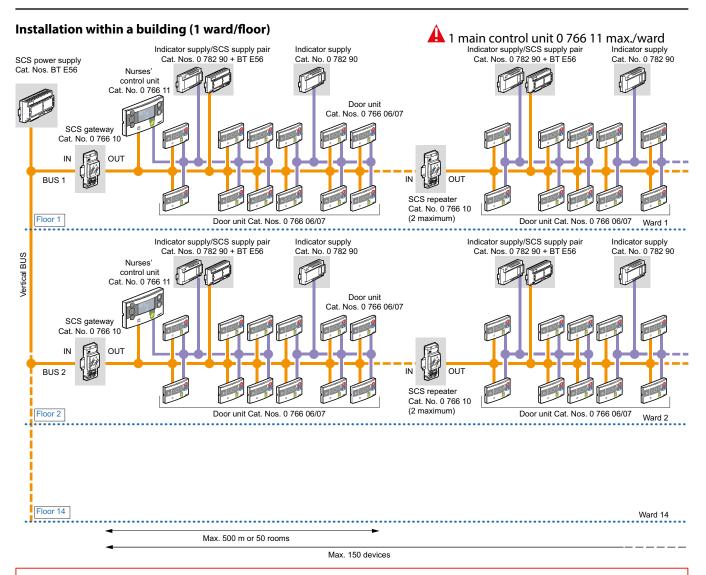
Indicator power supply cable 2 x 0.9 SYT or 2 x 1 mm² or 1 pair AWG19 or AWG18

CONTENTS

lacktriangle The BUS/SCS and indicator cables must be placed in the ELV cable ducting (see NF C 15-100).



INSTALLATION PRINCIPLE

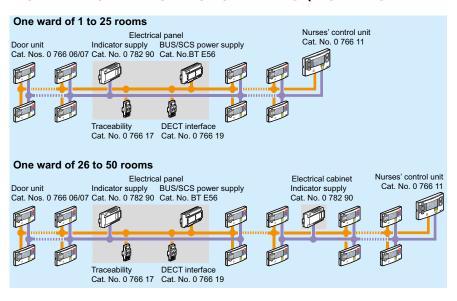


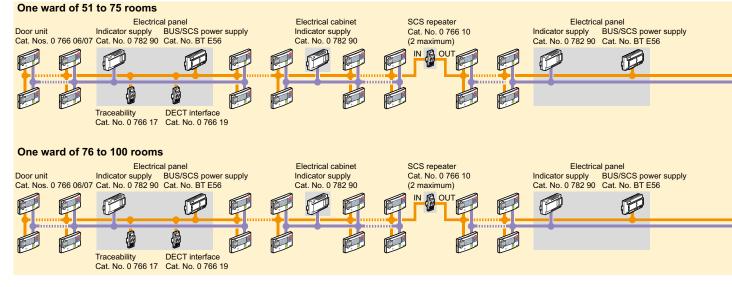
IMPORTANT

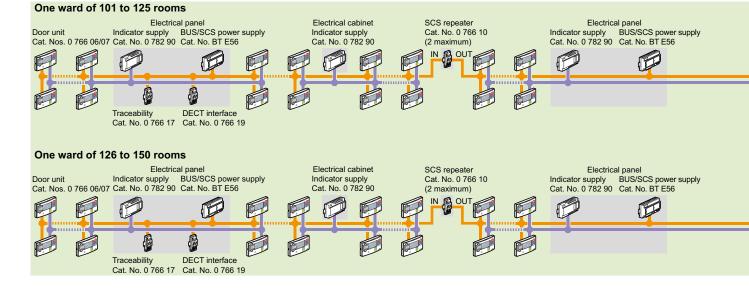
- One BUS power supply for 50 rooms max.
- One indicator power supply for 25 rooms max. (16 in the interphone version)
- An installation can comprise a maximum of 14 control units (Cat. No. 0 766 11) connected on a single vertical BUS, a maximum of 14 wards in virtual configuration and a maximum of 10 wards in physical (or configurator) configuration.

BUS/SCS installation principle (continued)

INSTALLATION PRINCIPLES FOR A WARD (INDEPENDENT WARD)









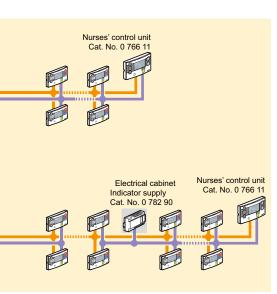
BUS/SCS cable Cat. Nos. 0 492 72/75

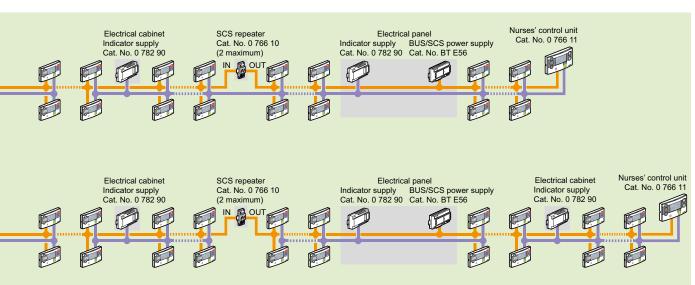
Indicator power supply cable 2 x 0.9 SYT or 2 x 1 mm² or 1 pair AWG19 or AWG 18

Number of rooms per ward in a building such as a hospital or clinic

Number of rooms per ward in a building such as a nursing home

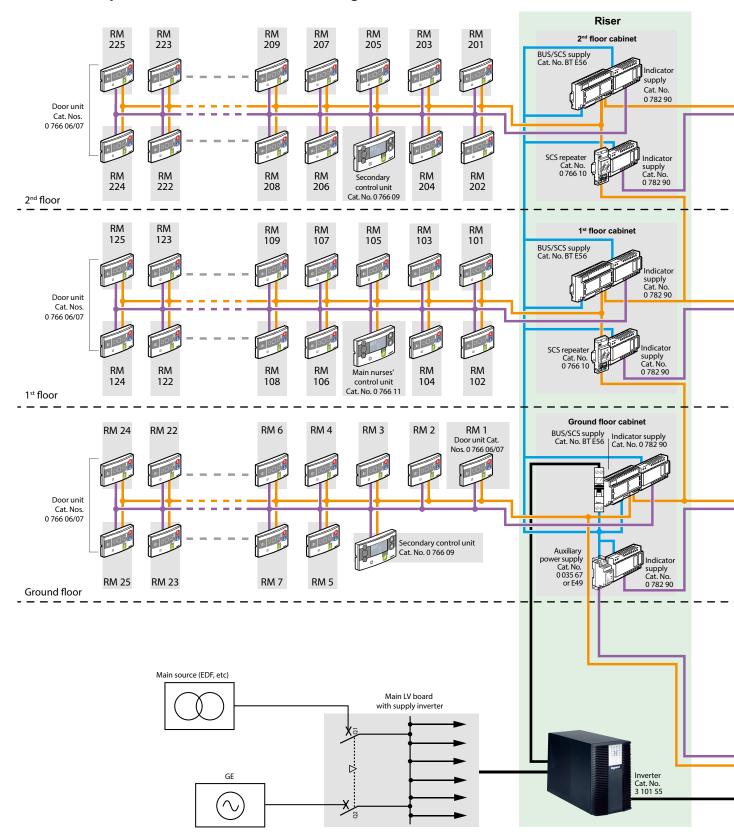
Number of rooms per ward in a building such as a residential care home

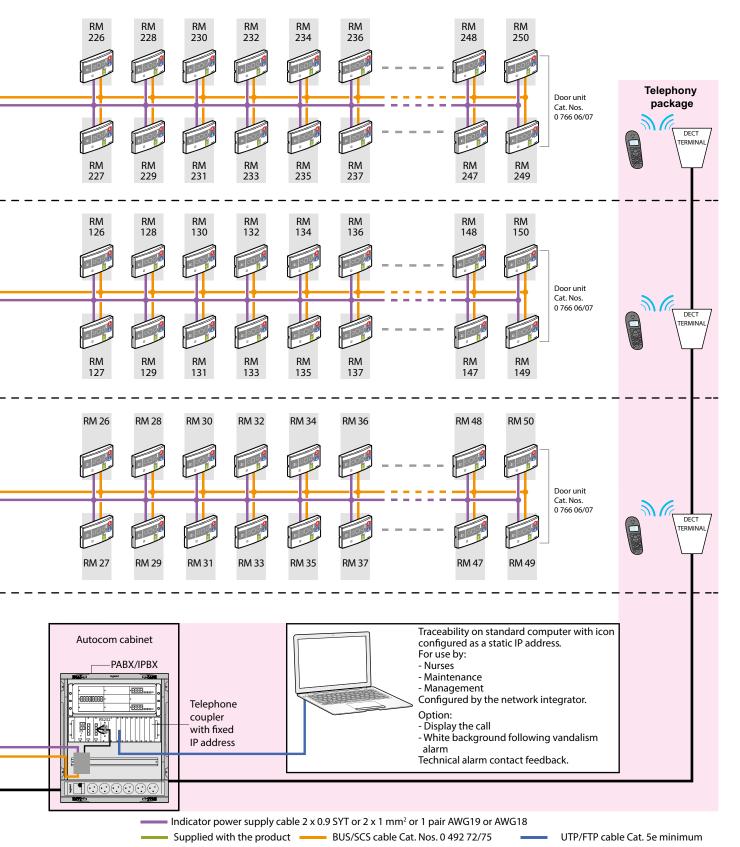




BUS/SCS installation principle (continued)

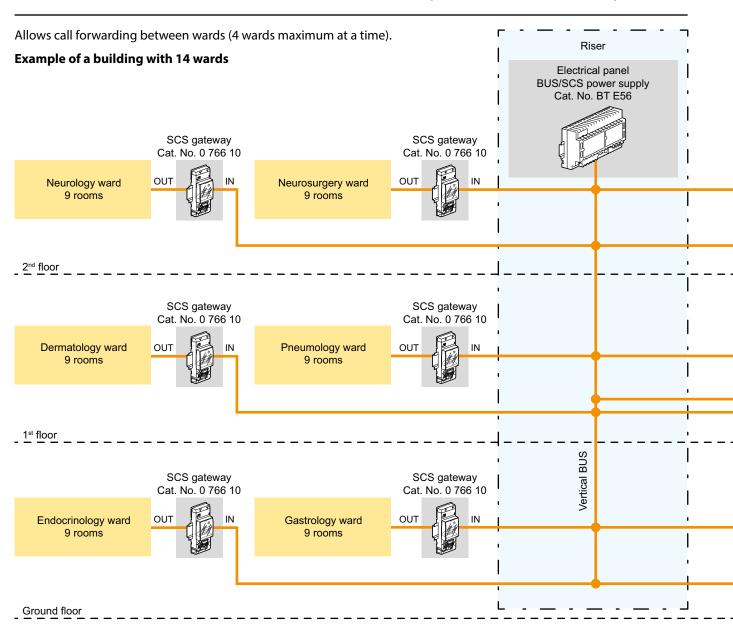
NURSING HOME + RESIDENTIAL CARE HOME 1 ward with up to 150 rooms in the whole building





BUS/SCS installation principle (continued)

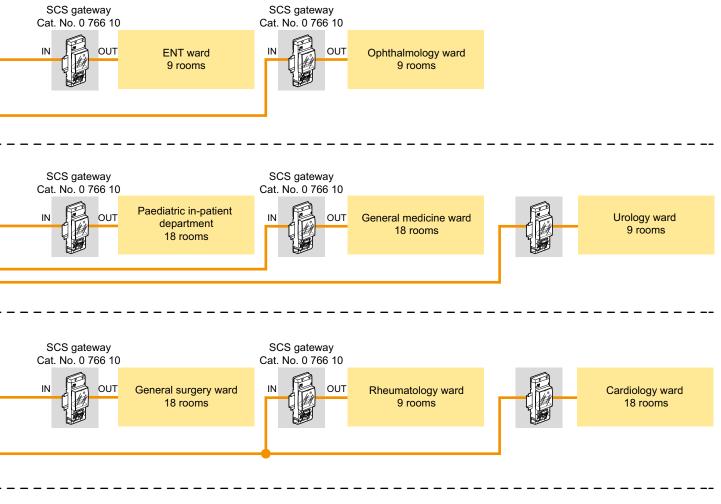
INSTALLATION PRINCIPLES FOR INTERCONNECTED WARDS (WITH CALL FORWARDING)



NB: The link between wards only works for forwarding calls between wards.

A maximum of 14 wards can be connected, with 4 calls max. forwarded.

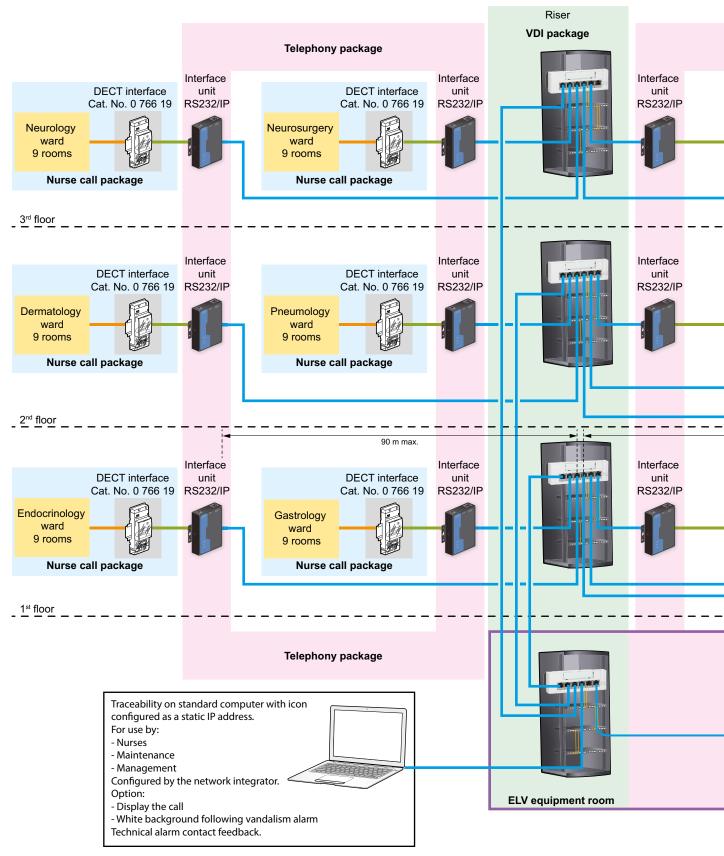
Each ward must be autonomous as regards power supplies.

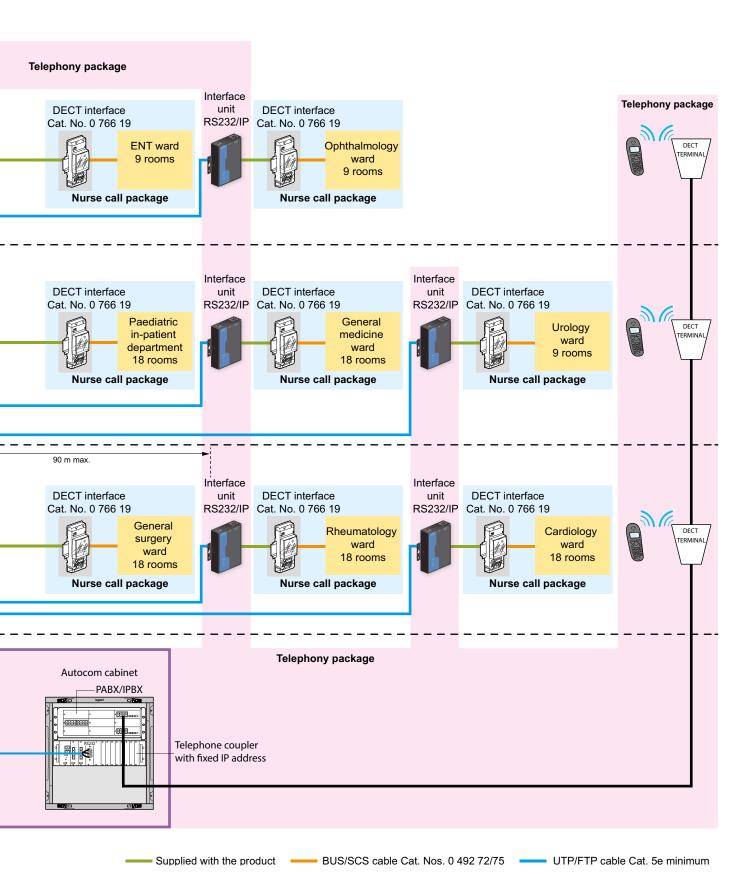


BUS/SCS cable Cat. Nos. 0 492 72/75

BUS/SCS installation principle (continued)

INSTALLATION PRINCIPLES FOR INDEPENDENT WARDS WITH CENTRALISED TRACEABILITY AND CALL FORWARDING OVER DECT





BUS/SCS installation principle (continued)



A Star wiring recommended

EXAMPLE OF WIRING FOR MAXIMUM BUS/SCS LENGTHS

The main devices, the nurses' station control unit and the patient room door units must be connected to the 27 V... BUS/SCS and a 27 V indicator power supply.

The nurse call installation can be wired via a tap junction from any other device (door units, nurses' control units, etc). The examples of installation in this guide are typical configurations.

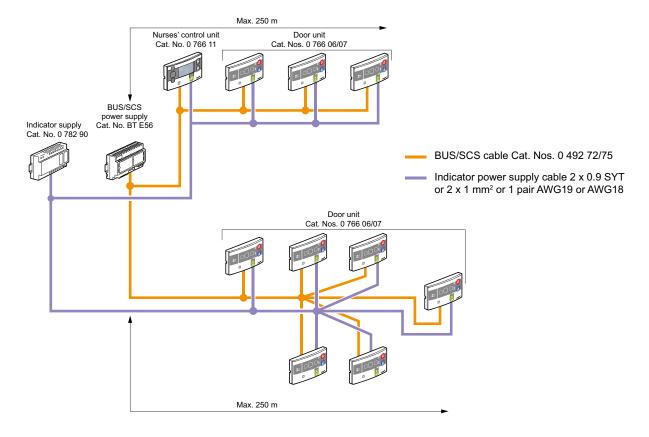
It is vital to calculate the power supply in order to determine the power supplies required for each installation.

The number of devices that can be connected to the bus and the indicator power supply depends on the total power that they require.

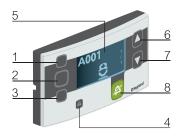
Once the installation has been set up, it is also necessary to check that the installation is working properly and that the power supplies are sized correctly compared to the threshold case established during the study phase.

As well as power consumption requirements, the BUS wiring must also always comply with the following rules:

- The length of the link between the power supply and the furthest device must not exceed 250 metres.
- The total length of links within a ward must not exceed 500 metres for bus power supply Cat. No. BT E56. If the distances or required bus power are exceeded, it is possible to extend the installation using bus extension Cat. No. 0 766 10.



Device presentation and installation



- 1 White LED bathroom indicator
- 2 Red LED alarm indicator
- 3 Green LED nurse presence indicator
- 4 Yellow LED installation error indicator
- 5 Display unit
- 6 and 7 Navigation buttons
- 8 Mute (silence) or confirmation button/device identification button for virtual parameter setting

MAIN NURSES' CONTROL UNIT CAT. NO. 0 766 11 AND SECONDARY CONTROL UNIT CAT. NO. 0 766 09

Main nurses' control unit Cat. No. 0 766 11

The main nurses' control unit allows monitoring and control of rooms belonging to the same ward. All information can be displayed on the LCD screen, enabling complete data management. In installations which use interphones, it is also necessary to install an interphone unit Cat. No. 0 766 08. For installation in the nurses' station. Install a maximum of one main nurses' control unit

per ward.

If more are needed, install secondary control units.

Secondary control unit Cat. No. 0 766 09

The secondary control unit allows information to be relayed from the main nurses' control unit. For installation in a specific room (rest area, dining room, etc). In installations which use interphones, it is also necessary to install an interphone unit Cat. No. 0 766 08.

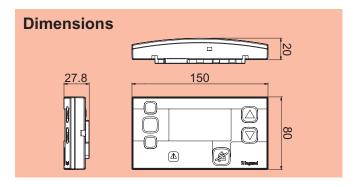
Technical characteristics

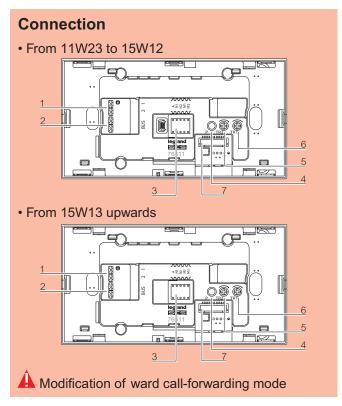
- Power supply: 27 V₌
- Indicator power supply consumption:
 - in standby mode: 19 mA
 - max: 66 mA
- BUS power supply consumption: 3 mA

Consumption in degraded mode: 29 mA on BUS power supply

- Operating temperature: 5 to 40°C
 Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 42
- Dimensions (H x W x D): 80 x 150 x 20 mm
- Installation (supplied with mounting support):
 - in 2-gang horizontal flush-mounting box (4 modules)
- on wall with surface-mounting box Cat. No. 0 766 14
- on nurses' control unit Cat. No. 0 766 12 or
- Cat. No. 0 766 13 (inclined plane) for fixing on table

 Sound level: max: 60 dBA at 2 m min: 40 dBA at 2 m

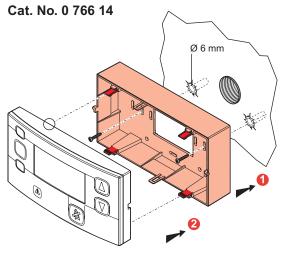




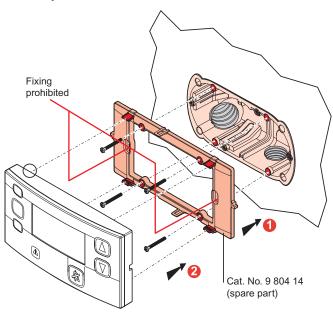
- 1 27 V₌ indicator power supply terminals 1-2
- 2 BUS terminals
- 3 Space for configurators
- 4 Factory reset button (press for 10 s)
- 5 Control button brightness adjustment
- 6 Buzzer volume adjustment
- 7 Connector for interphone unit

MAIN NURSES' CONTROL UNIT CAT. NO. 0 766 11 AND SECONDARY CONTROL UNIT CAT. NO. 0 766 09 (CONTINUED)

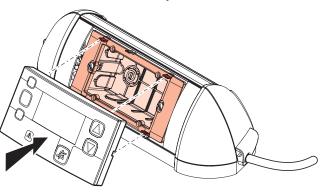
Surface-mounted wall installation with box



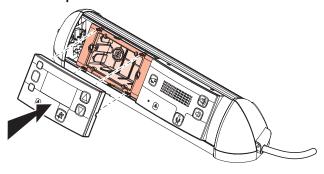
Flush-mounted wall installation in flush-mounting box, depth 50 mm

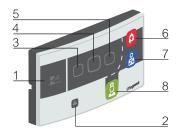


Installation on an inclined plane Cat. No. 0 766 12



Installation on an inclined plane Cat. No. 0 766 13 with interphone unit Cat. No. 0 766 08





- 1 Red LED indicator for calls from another room
- 2 Yellow LED installation error indicator
- 3 White LED bathroom indicator
- 4 Red LED alarm indicator
- 5 Green LED nurse presence indicator
- 6 Call button/indicator
- 7 Doctor request button/indicator
- 8 Nurse presence and acknowledgement button/indicator and product identification button for virtual parameter setting

DOOR UNIT WITH INDICATORS CAT. NO. 0 766 06

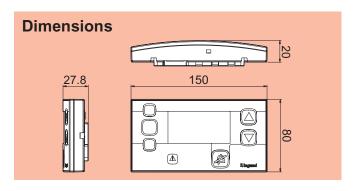
The door unit allows local control and display of calls, with visual and audible signalling.

Once a nurse is present, it is used to signal calls from another room.

The nurse present button can be remotely located on an external push-button, a coded keypad or card reader.

Technical characteristics

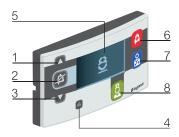
- Power supply: 27 V₌
- Indicator power supply consumption:
 - in standby mode: 38.5 mA
 - max: 198 mA
- BUS power supply consumption: 2.2 mA
 Consumption in degraded mode: 68 mA on BUS power supply
- Operating temperature: 5 to 40°C
 Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 42
- Dimensions (H x W x D): 80 x 150 x 20 mm
- Installation (supplied with mounting support):
- in horizontal 2-gang flush-mounting box (4 modules)
- on wall with surface-mounting box Cat. No. 0 766 14
- Sound level: max: 60 dBA at 2 m min: 40 dBA at 2 m



• 15W23 upwards

- 1 27 V_m indicator power supply terminals 1-2
- 2 BUS terminals
- 3 Terminal block numbered 1 to 16
- 4 Terminal block numbered 17 to 22
- 5 Space for configurators
- 6 Factory reset button (press for 10 s)
- 7 Control button brightness adjustment
- 8 Buzzer volume adjustment
- 9 Microswitch for configuring the external acknowledgement button

Flush-mounted or surface-mounted wall installation (see main nurses' control unit Cat. No. 0 766 11)



- 1 Navigation button
- 2 Mute button (silence)
- 3 Navigation button
- 4 Yellow LED installation error indicator
- 5 Display unit
- 6 Call button/indicator
- 7 Doctor request button/indicator
- 8 Nurse presence and acknowledgement button/indicator and product identification button for virtual parameter setting

DOOR UNIT WITH DISPLAY UNIT CAT. NO. 0 766 07

The door unit allows local control and display of calls, with visual and audio signalling, on a digital graphic screen.

Once a nurse is present, this unit becomes a nurses' control unit (it displays the same information and allows remote muting).

Used in conjunction with the interphone unit Cat. No. 0 766 08 to communicate with rooms making calls with a nurse present.

Hang-up function at the end of a call.

The nurse present button can be remotely located on an external push-button, a coded keypad or card reader.

Technical characteristics

- Power supply: 27 V...
- Indicator power supply consumption:
 - in standby mode: 38.5 mA
 - max: 233 mA
- BUS power supply consumption: 3 mA
 Consumption in degraded mode: 53 mA on BUS power supply
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 42
- Dimensions (H x W x D): 80 x 150 x 20 mm
- Installation (supplied with mounting support):
 - in horizontal 2-gang flush-mounting box
- on wall with surface-mounting box Cat. No. 0 766 14
- Sound level: max: 60 dBA at 2 m min: 40 dBA at 2 m

Dimensions 27.8 150 Quantity A Superior Control of the control

• From 11W23 to 15W22 **Towns of the state of the state

- 1 27 V₌ indicator power supply terminals 1-2
- 2 BUS terminals
- 3 Terminal block numbered 1 to 16
- 4 Terminal block numbered 17 to 22
- 5 Space for configurators
- 6 Factory reset button (press for 10 s)
- 7 Control button brightness adjustment
- 8 Buzzer volume adjustment
- 9 Connector for interphone unit
- 10 Microswitch for configuring the external acknowledgement button

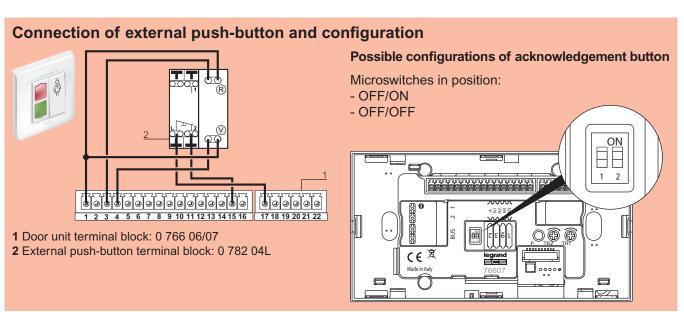
Flush-mounted or surface-mounted wall installation (see main nurses' control unit Cat. No. 0 766 11)

Installation with interphone unit (see interphone unit Cat. No. 0 766 08)



Configuration of acknowledgement button for door units Cat. Nos. 0 766 06/07

Microswitch		Configuration of acknowledgement button	
1	2		
ON	ON	Green button 2 only (factory configuration)	
OFF	ON	Green button 🚨 and external push-button (NC) (Cat. No. 0 782 04L)	
ON	OFF	No button (do not use: no active button)	
OFF	OFF	External push-button (NC) only (Cat. No. 0 782 04L)	





- 1 Communication button
- 2 Loudspeaker
- 3 4 Volume adjustment controls (maximum and minimum)
- 5 Hands-free button
- 6 Microphone
- 7 Yellow LED installation error indicator

INTERPHONE UNIT CAT. NO. 0 766 08

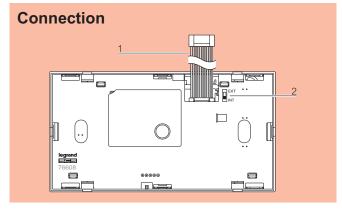
The interphone unit is used in conjunction with the main nurses' control unit (Cat. No. 0 766 11), with the secondary control unit (Cat. No. 0 766 09) and the door unit (Cat. No. 0 766 07), and allows two-way voice communication.

When a call is made, the nurse can speak to the patient and hang up the call if necessary. It must be used with a patient room microphone (Cat. No. 0 782 00L) if the patient is more than 2 m away from the door unit.

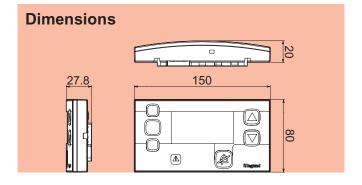
If the interphone unit is used with a patient room microphone, the activation/deactivation switch must be in the external position.

Technical characteristics

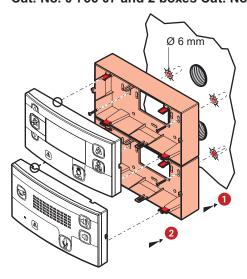
- Power supply: via door units Cat. No. 0 766 07 or nurses' control unit Cat. No. 0 766 11
- Normal consumption: 42 mA on indicator power supply Consumption in degraded mode: 10 mA on bus power supply
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 42
- Dimensions (H x W x D): 80 x 150 x 20 mm
- Installation (supplied with mounting support):
 - directly on the wall or with surface-mounting box Cat. No. 0 766 14



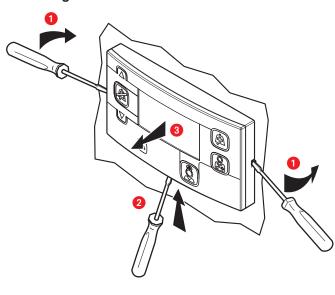
- 1 Ribbon cable for connection to door unit Cat. No. 0 766 07 or main nurses' control unit Cat. Nos. 0 766 11/09
- 2 External microphone Cat. No. 0 782 00L activation/ deactivation switch (factory setting: microphone in indoor mode)



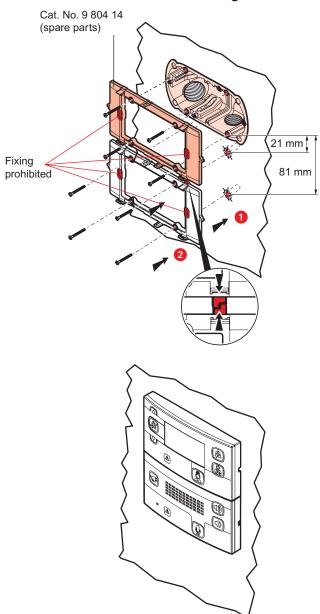
Surface-mounted wall installation with door unit Cat. No. 0 766 07 and 2 boxes Cat. No. 0 766 14



Removing the door unit



Flush-mounted wall installation with door unit Cat. No. 0 766 07 and flush-mounting box





PATIENT ROOM MICROPHONE CAT. NO. 0 782 00L

The microphone is used in conjunction with the interphone unit (Cat. No. 0 766 08) to improve sound quality.

This device must be installed close to the bedhead.

Technical characteristics

- Power supply: via door units Cat. No. 0 766 07
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Protection index: IP 20
- Overall dimensions (H x W): 82 x 82 mm
- Installation (supplied with mounting support):
 - in 1-gang flush-mounting box
 - on wall with surface-mounting box Cat. No. 0 802 81
- in a strip using special holder supplied
- 1 microphone max. per door unit

- 1 Microphone terminal block: 0 782 00L
- 2 Door unit terminal block: 0 766 07

Microphone sensitivity setting

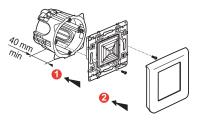


Very low gain factory setting. Microphone gain/amplification can be adjusted.

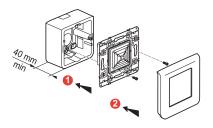
Tip: set to 3/4 of possible travel.

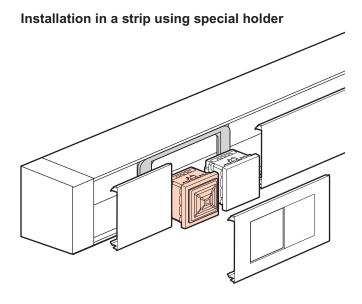


Flush-mounted wall installation in 1-gang screw flush-mounting box



Surface-mounted wall installation with box Cat. No. 0 802 81







SOCKETS CAT. NOS. 0 782 41/46L FOR HAND-HELD REMOTE CONTROL UNITS

Sockets Cat. No. 0 782 41 for mounting in a strip and 0 782 46L for call-only hand-held remote control unit (push-button cord)

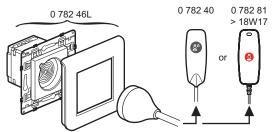
Magnetic connection between hand-held unit and socket: can be ejected in any direction with pull-out torque designed to avoid any damage to the equipment.

Antimicrobial.

Non-indexed magnetic connection socket for hand-held remote control unit Cat. No. 0 782 40 (from 11W45 to 18W16) or 0 782 81 (from 18W17 upwards).

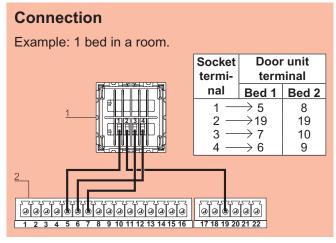
0 782 41





Technical characteristics

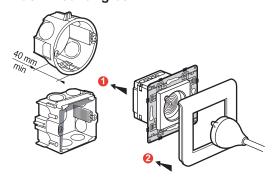
- · Power supply: via the door unit
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 42
- Dimensions:
 - Cat. No. 0 782 41: 45 x 45 x 36 mm
- Cat. No. 0 782 46L: 82 x 82 x 36 mm
- Installation:
- in 1-gang flush-mounting box (2 modules)
- on wall with surface-mounting box Cat. No. 0 802 81
- in a strip using special holder supplied



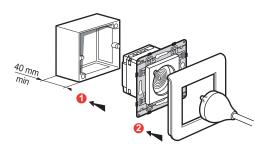
- 1 Socket terminal block: 0 782 41/46L
- 2 Door unit terminal block: 0 766 06/07

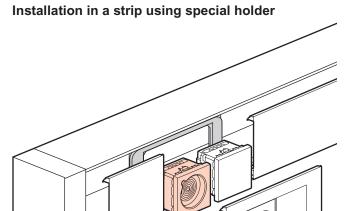


Flush-mounted wall installation with 1-gang flush-mounting box



Surface-mounted wall installation with box Cat. No. 0 802 81







SOCKETS CAT. NOS. 0 782 45/47L FOR HAND-HELD REMOTE CONTROL UNITS

Sockets Cat. Nos. 0 782 45 and 0 782 47L for handheld remote control units for calls and controls

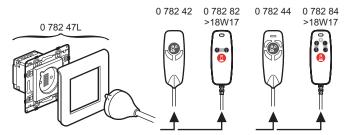
Magnetic connection between hand-held unit and socket: can be ejected in any direction with pull-out torque designed to avoid any damage to the equipment.

Antimicrobial.

Indexed magnetic connection socket for hand-held remote control unit Cat. Nos. 0 782 42/44 (11W45 to 18W16) and 0 782 82/84 (18W17 upwards).

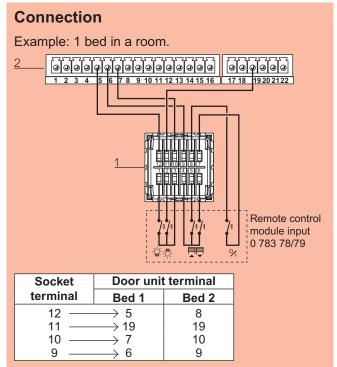
0 782 45





Technical characteristics

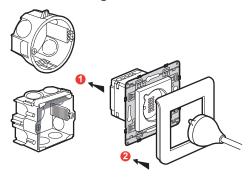
- Power supply:
- via the door unit for nurse calls
- via remote control module Cat. No. 0 783 77 or 0 783 78 or 783 79 for lighting and roller blinds
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 42
- Dimensions:
- Cat. No. 0 782 45: 45 x 45 x 36 mm
- Cat. No. 0 782 47L: 82 x 82 x 36 mm
- Installation:
- in 1-gang flush-mounting box (2 modules)
- on wall with surface-mounting box Cat. No. 0 802 81



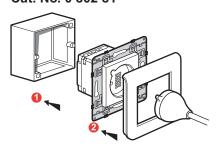
1 Socket terminal block: 0 782 45/47L **2** Door unit terminal block: 0 766 06/07

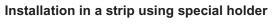


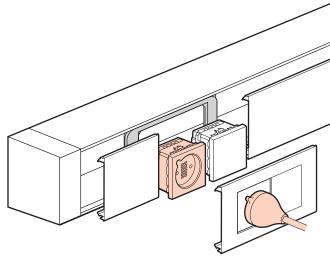
Flush-mounted wall installation with 1-gang flush-mounting box



Surface-mounted wall installation with box Cat. No. 0 802 81









REMOTE CONTROL MODULES CAT. NOS. 0 783 77/78/79

These units are used to control lighting or other SELV functions via hand-held remote control units.

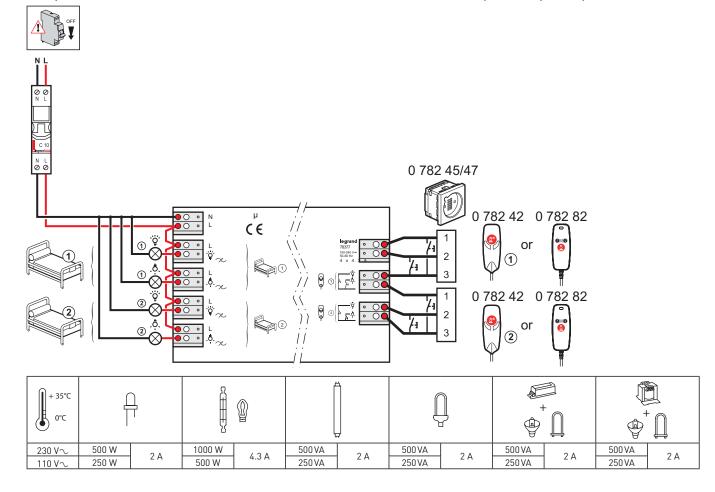
To be fitted in bedhead strips or ceiling-mounted.

Technical characteristics

- Power supply: 100 240 V
- Operating temperature: 0 to 35°C
- Storage temperature: -20 to 70°C
- Dimensions: 230 x 71 x 44 mm
- · Installation: in bedhead strip or ceiling-mounted

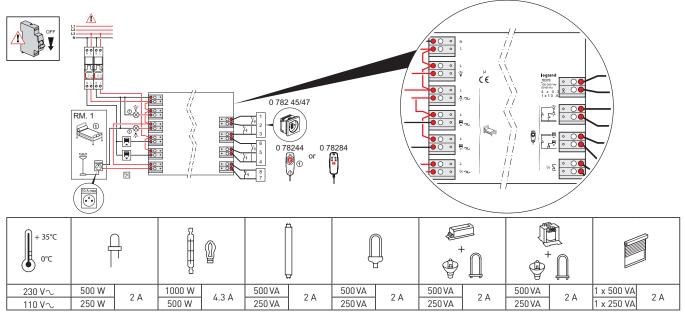
Remote control module for bedhead strips for controlling 4 lighting outputs Cat. No. 0 783 77

Compatible with hand-held remote control unit Cat. No. 0 782 42 or 0 782 82 (18W17 upwards).



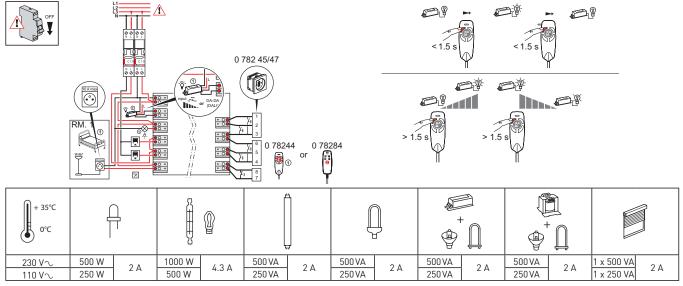


Remote control module for bedhead strips for controlling 2 lighting outputs and roller blinds Cat. No. 0 783 78 Compatible with hand-held remote control unit Cat. No. 0 782 44 or 0 782 84 (18W17 upwards).



Bedhead strip remote control module for controlling 2 lighting outputs (room lighting with dimmer and reading ON/OFF), roller blinds and one 10 A any-function output Cat. No. 0 783 79

Compatible with hand-held remote control unit Cat. No. 0 782 44 or 0 782 84 (18W17 upwards).





HAND-HELD REMOTE CONTROL UNITS (18W17 UPWARDS)

Allow patients to call a nurse (using an NC pushbutton) via the door unit.

Magnetic connection between hand-held remote control units and sockets:

can be ejected in all directions with pull out torque designed to avoid any damage to the equipment. Recommended cleaning: use wipes impregnated with detergent for food contact surfaces (Dettol, etc).

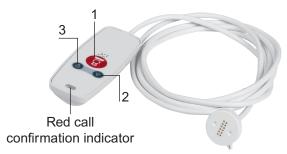
Hand-held remote control unit for call only (call push-button cord) Cat. No. 0 782 81 (18W17 upwards)

For use with socket Cat. No. 0 782 41 or 0 782 46L.



Hand-held remote control unit for calls and controls Cat. No. 0 782 82

For use with socket Cat. No. 0 782 45 or 0 782 47L.



- 1 LED backlit nurse call button
- 2 Reading light control (NO push-button)
- 3 Room lighting control (NO push-button)

Technical characteristics

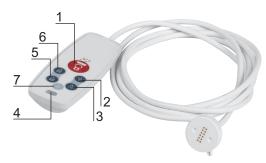
- Power supply: via sockets for hand-held remote control units
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 67 (without plug)
- Cord length: 2.5 m
- Can be fixed or held in place with clamp Cat. No. 0 782 43
- · Backlight consumption: 2 mA



CLAMP CAT. NO. 0 782 43

Hand-held remote control unit for calls and controls Cat. No. 0 782 84

For use with socket Cat. No. 0 782 45 or 0 782 47L.

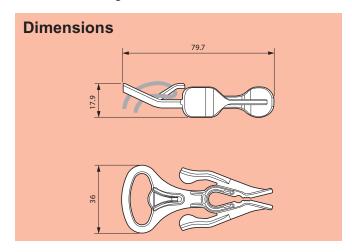


- 1 LED backlit nurse call button
- 2 Reading light control (NO push-button)
- 3 Room lighting control (NO push-button)
- 4 Red call confirmation indicator
- 5 and 6 Roller blind control (NO push-button)
- 7 Free function button (NO push-button)

Technical characteristics

- Power supply: via sockets for hand-held remote control units
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 67 (without plug)
- Backlight consumption: 2 mA
- Cord length: 2.5 m
- Can be fixed or held in place with clamp Cat. No. 0 782 43

For holding the hand-held remote control unit within reach: on bedding, clothes or the arm of a chair.





BED EXTENSION CAT. NO. 0 782 19 FOR DOOR UNITS CAT. NOS. 0 766 06/07

Connected to the hand-held remote control units and to the door unit, this extension can manage up to 4 beds per room and identify them as 1 to 4 on the various displays (door units, nurses' control units, corridor display units and DECT).

Configuration is only possible on the door unit using the Nurse Call Configurator software Cat. No. 0 766 15 (physical configuration not possible).

Technical characteristics

Power supply: door unitConsumption: 1.8 W max.

• Operating temperature: -5 to + 40°C

• Storage temperature: -20 to 70°C

• Dimensions: 6 DIN modules

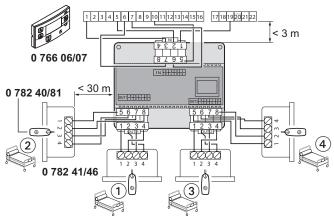
# = Call source			
Door unit			
Bed 1	1		
Bed 2	2		
Bed 3	3		
Bed 4	4		
WC/Bathrooms	W		

Example of a call:

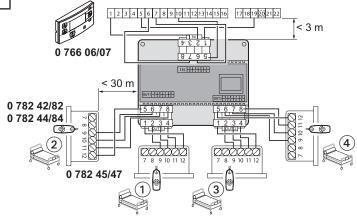
A001-3!: call from ward A, room 1, bed 3.

Connection

Installation with hand-held remote control units for call only



Installation with hand-held remote control units for calls and controls







Can be positioned in zone 1 of the bathroom and recommended at a height of 2.3 m

- 1 Red call confirmation indicator
- 2 NC call button
- Ejectable red anti-microbial cord



EJECTABLE CALL PULL-CORD FOR BATHROOMS CAT. NO. 0 782 48L

Allows calls to a nurse from the bathrooms.

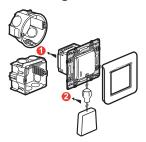
Technical characteristics

- Power supply: via door unit Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 55 (flush-mounting only)
- Dimensions (H x W x D): 82 x 82 x 43 mm
- Installation: in 1-gang flush-mounting box

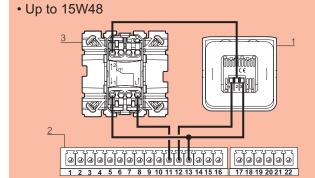
Example for 1 bathroom 2 2 27v... 0v 22v... 0

- 1 Bathroom pull-cord terminal block: 0 782 48L
- 2 Door unit terminal block: 0 766 06/07

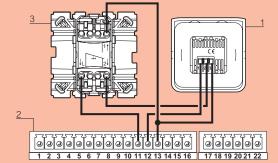
Flush-mounted wall installation with 1-gang flushmounting box



Connection

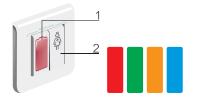


15W48 upwards



- 1 Bathroom pull-cord terminal block: 0 782 48L
- 2 Door unit terminal block: 0 766 06/07
- 3 Soliroc call button terminal block: 0 782 51

NB: Wire up the call button terminal block Cat. No. 0 782 51 before the bathroom pull-cord terminal block Cat. No. 0 782 48L. If the order is reversed, remember to swap the wires on terminals 11 and 12.



- 1 Red call confirmation indicator
- 2 NC call button

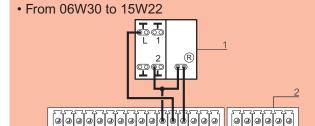
Possibility of IP 44 with plate Cat. No. 0 788 80

BATHROOM CALL UNITS OR CALL BUTTON CAT. NO. 0 766 85L

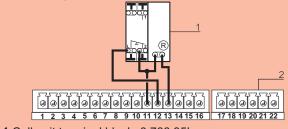
Technical characteristics

- Power supply: via door units Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 20
- Dimensions (H x W x D): 82 x 82 x 43 mm
- · Installation:
- in 1-gang flush-mounting box (2 modules)
- in surface-mounting box Cat. No. 0 802 81 (IP 20)

Connection of bathroom call unit



- 1 Call unit terminal block: 0 766 85L 2 Door unit terminal block: 0 766 06/07
- 15W23 upwards

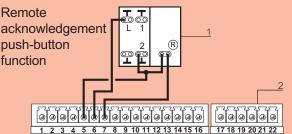


- 1 Call unit terminal block: 0 766 85L
- 2 Door unit terminal block: 0 766 06/07

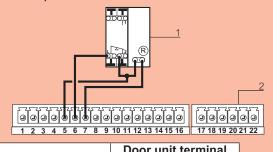
Call unit terminal	ninal Door unit terminal	
L	→ 12	
² _R }	→ 11	
R		

Connection of call button

• From 06W30 to 15W22



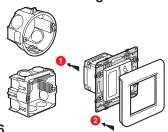
- 1 Call unit terminal block: 0 766 85L
- 2 Door unit terminal block: 0 766 06/07
- 15W23 upwards



Call unit terminal	Door unit terminal	
	Bed 1	Bed 2
L —	→ 6	9
² _R }	\rightarrow 5	8
R	\rightarrow 7	10

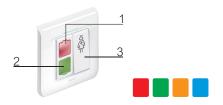
- 1 Call unit terminal block: 0 766 85L
- 2 Door unit terminal block: 0 766 06/07

Flush-mounted wall installation with 1-gang flush-mounting box



Surface-mounted wall installation with box Cat. No. 0 802 81





- 1 Red call confirmation indicator
- 2 Nurse present indicator
- 3 Presence and acknowledgement push-button

ACKNOWLEDGEMENT OR REMOTE ACKNOWLEDGEMENT PUSH-BUTTON CAT. NO. 0 782 04L

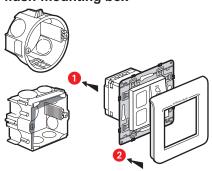
Comprising 2 white indicators which can be fitted with red and green labels and a push-button for nurse presence and call acknowledgement.

Recommendation: Place the red label on the call indicator (top indicator) and the green label on the bottom indicator.

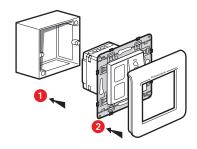
Technical characteristics

- Power supply: via door units Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
 Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 20
- Dimensions (H x W x D): 82 x 82 x 43 mm
- Installation:
 - in 1-gang flush-mounting box (2 modules)
- in surface-mounting box Cat. No. 0 802 81 (IP 20)

Flush-mounted wall installation with 1-gang flush-mounting box



Surface-mounted wall installation with box Cat. No. 0 802 81





KEYLESS RADIO RECEIVER CAT. NO. 51IVXNE1011013-01

This is a radio unit which receives call signals emitted by personal radio triggers (eg: pendant trigger, watch, fall detection) as well as wired transmission of information to the door unit.

The receiver is supplied by the indicator power supply and is battery-backed.

The red LED indicates that the receiver is receiving radio transmission.

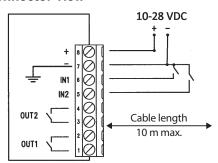
Once a day, the transmitter signals its presence to the receiver and warns it if the battery level is low. It is programmed and wired to trigger a chaser light on the SCS nurse call unit.

Technical characteristics

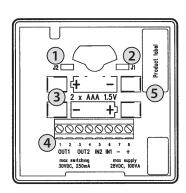
- Power supply: indicator power supply Cat. No. 0 782 90 (possible from 10 to 28 VDC) and 2 x 1.5 V AAA batteries (not supplied)
- · Consumption: 1.2 W (at 28 V)
- Dimensions (H x W x D): 86 x 86 x 14 mm
- Two-way radio frequency: 869.2, 869.25 MHz (social alarm radio frequency)
- OUT contact: 2 contacts (max. 30 V, 250 mA)
- IN contact: 2 contacts
- Radio range: inside building 20 metres from each side of the receiver to be checked
 - unobstructed space range 250 metres

Neither of the 2 IN contacts are taken into account for 10 seconds after the product is supplied with power.

Detailed connector view



Rear view



Item	Connector
1	J2 jumper
2	J1 jumper
3	2 x 1.5 V AAA batteries
4	Connector
5	Product label

J1 + J2 jumpers (configurators)

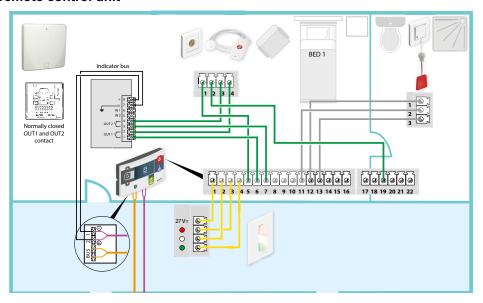
By default, the J1 and J2 jumpers have the functions described below:

	Mounted	Not mounted
J1		Receiver OFF, battery
	mode ¹	mode
J2	Normally closed contact	Normally open contact
	input (IN1 and IN2)	input (IN1 and IN2)

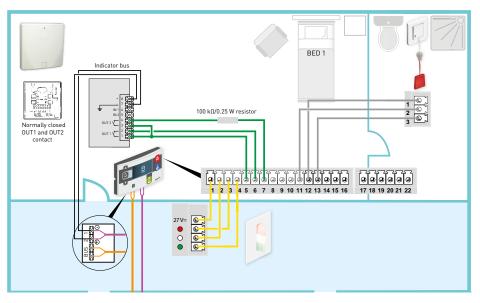
¹ If the J1 jumper is mounted, the receiver should be powered by an external power supply (12 to 28 V).



Wiring diagram with hand-held remote control unit

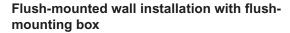


Wiring diagram without hand-held remote control unit

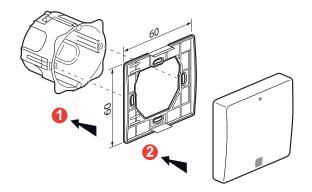




KEYLESS RADIO RECEIVER CAT. NO. 51IVXNE1011013-01 (CONTINUED)



Principle for Cat. No. 51IVXNE1011013-01

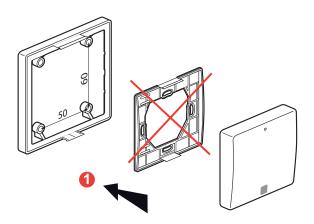




SU BRACKET CAT. NO. 51IVXNE3211003-20/ 51IVXNE3211003-21

Surface-mounted wall installation with box

Principle for Cat. No. 51IVXNE3211003-20











PERSONAL TRIGGER CAT. NO. 51IVXNE1014002-02

This is worn as a pendant or as a watch. It allows the resident to press the button in order to call a nurse.

The red LED signals that radio transmission has taken place.

To ensure the device is safe, the trigger regularly checks the battery status and warns it if the battery level is low. If this is the case, the trigger must be replaced as soon as possible.

PROGRAMMING

The trigger must be programmed for "conventional" use with its associated receiver.

TECHNICAL CHARACTERISTICS

- · Can be worn around the wrist or the neck
- Dimensions: 43 x 35 x 13 mm
- · Sealed: IP 67*
- Frequency: 869.2-869.25 MHz dedicated to social alarms
- · Two-way radio
- · Visual indication for user
- · Battery check
- * The IP67 test corresponds to tests conducted on sample new triggers: they are submerged to a maximum depth of 1 m for 30 minutes maximum.

SIMPLIFIED EU DECLARATION OF CONFORMITY

Intervox hereby declares that the aforementioned radio-electric equipment complies with directive 2014/53/EU. The full text of the EU declaration of conformity can be found at the following web address: www.intervox.fr

PERSONAL TRIGGER CAT. NO. 51IVXNE1016001-01

The wrist strap becomes operational as soon as it has been activated (by a long press on the middle of the transmitter face until the red LED flashes; the wrist strap then emits a vibration signal). When the wrist strap is detected, a delay of a few seconds is necessary before it can be detected a second time.

The trigger is made of a hypo-allergenic material which can be in continuous contact with the skin.

The battery has an expected lifetime of more than a year (although replacing the batteries annually is recommended).

The IP 67 protection allows residents to take showers.

The wrist strap transmitters can also be cleaned by placing them in an alcohol bath for 5 minutes.

They must be removed in the following cases:

- If they are faulty or the battery is dead
- When the resident leaves
- When the resident undergoes an MRI (Magnetic Resonance Imaging) scan

When the wrist strap needs to be replaced, order a new wrist strap Cat. No. 9 804 09/51IVXNE1016012-02.

When the wrist strap is no longer in use, it can be switched to storage mode to preserve battery life (first lay the wrist strap flat on a table to hold it still; then press the middle of the face until the red LED comes on; then release, and press 5 times in quick succession).

Technical characteristics

- IP 67
- Hypoallergenic plastic
- Frequency: 869.2125 MHz
- Power supply: 1 x CR2477 lithium battery
- Standby power: 18 months with normal usage
- Dimensions: 33 x 37 x 12.9 mm
- · Weight: 35 g in working order



PERSONAL TRIGGER CAT. NO. 51IVXNE1016001-01 (CONTINUED)

CHANGING THE WRIST STRAP



Firstly obtain a new wrist strap (Cat. No. 9 804 09)

Back of the wrist strap transmitter:

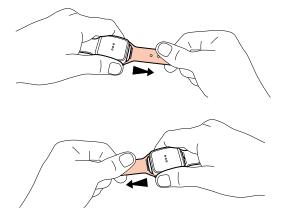


Front of the wrist strap transmitter:

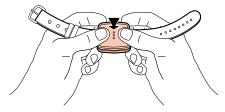


REMOVING THE OLD WRIST STRAP

1 Lift the 2 parts of the wrist strap alternately, pulling outwards to release the holding pins.



2 Push on the casing to release it from the wrist strap.

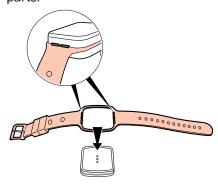


The wrist strap is removed.



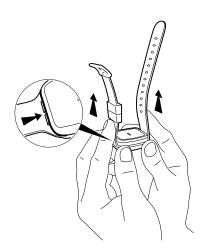
INSERTING THE NEW WRIST STRAP

4 Present the wrist strap to the casing by lifting both parts.

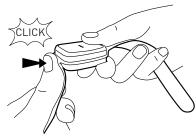


INSERTING THE NEW WRIST STRAP (CONTINUED)

6 Hold up both ends of the wrist strap so that the pins go into the transmitter groove.



6 Place the wrist strap facing down, while pushing the pins with your thumb. Repeat the operation for the other side of the wrist strap.



7 Check that the wrist strap is in place by pulling on the ends: the pins should not come out.





PERSONAL TRIGGER CAT. NO. 51IVXNE1016001-01 (CONTINUED)

CHANGING THE BATTERY

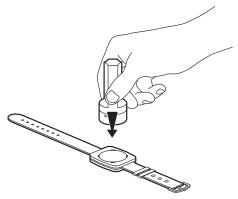
Kit Cat. No. 9 804 08

Seal x 20: Battery replacement tool

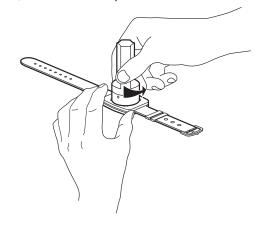
CR2477 battery (not supplied):



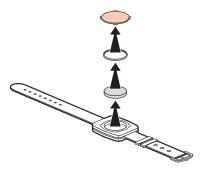
1 Take hold of the tool to remove the cover.



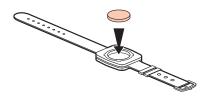
2 Turn as far as possible.



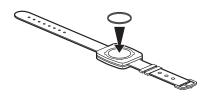
3 Remove the cover, seal and battery.



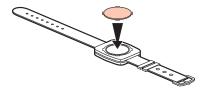
4 Replace the used battery.



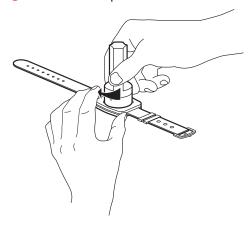
Insert a new seal.



6 Replace the cover.



7 Turn as far as possible.



There is a risk of explosion if the battery is replaced with an incorrect battery type. Discard used batteries in accordance with the instructions.



PROGRAMMING NPU CAT. NO. 51IVXNE1004006-07

The transmitters and receivers can be programmed by the manufacturer Intervox, who will invoice this service.

This product may be sold by Intervox (a subsidiary of the Legrand Group) for maintenance purposes.

It can be used to program transmitters associated with receivers.

For the initial installation, the installer can ask Intervox (a subsidiary of the Legrand Group) to program the transmitters and receivers (paid service unless the programming NPU is purchased).

For the maintenance team, this product can be sold with the programming procedure.



1 Red call confirmation indicator2 NC call push-button

WATERPROOF CALL UNIT FOR BATHROOMS OR NON-STANDARD ENVIRONMENTS CAT. NO. 0 782 49

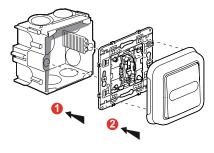
Allows patients to call a nurse.

Suitable for damp environments (eg: rehabilitation and spa recovery centres with swimming pool, steam room, sauna, etc). 2 products maximum per direction (bed/or bathroom).

Technical characteristics

- Power supply: via door units Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Antimicrobial
- Protection index: IP 55 IK 07
- Overall dimensions (H x W): 86 x 86 mm
- Installation: in 1-gang flush-mounting box

Flush-mounted wall installation with 1-gang flushmounting box



Connection • Of call unit for non-standard environments · Of bathroom call unit 99999 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 1 Waterproof call button terminal block: 0 782 49 1 Waterproof call button terminal block: 0 782 49 2 Door unit terminal block: 0 766 06/07 2 Door unit terminal block: 0 766 06/07 • Of 2 call units for non-standard environments · Of 2 bathroom call units 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 1 Waterproof call button terminal block: 0 782 49 1 Waterproof call button terminal block: 0 782 49 2 Door unit terminal block: 0 766 06/07 2 Door unit terminal block: 0 766 06/07 3 Diode Cat. No. 1N4007 (50 V 1 A) 3 Diode Cat. No. 1N4007 (50 V 1 A)



- 1 Red call confirmation indicator
- 2 NC call push-button

CALL DEVICES FOR NON-STANDARD ENVIRONMENTS CAT. NO. 0 782 51

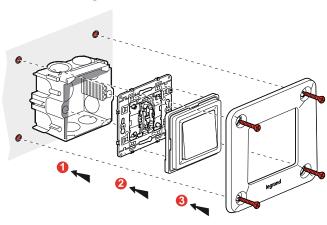
High-resistance call unit Cat. No. 0 782 51

Suitable for psychiatric and penal institutions, etc.

Technical characteristics

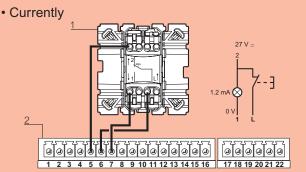
- Power supply: via door units Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Protection index: IP 55 IK 10
- Overall dimensions (H x W): 110 x 110 mm
- Installation:
 - in 1-gang flush-mounting box
 - surface-mounted with box Cat. No. 0 778 90

Flush-mounted wall installation with 1-gang flush-mounting box

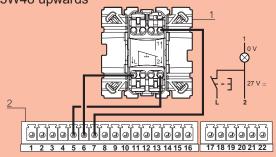


Connection

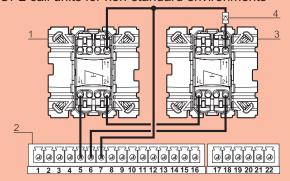
Example: 1 bed/cubicle.



- 1 Soliroc call button terminal block: 0 782 51
- 2 Door unit terminal block: 0 766 06/07
- 15W48 upwards



- 1 Soliroc call button terminal block: 0 782 51
- 2 Door unit terminal block: 0 766 06/07
- · Of 2 call units for non-standard environments



- 1 and 3 Soliroc call button terminal block: 0 782 51
- 2 Door unit terminal block: 0 766 06/07
- 4 Diode (50 V 1 A)





BIOMEDICAL CALL DEVICES, SOCKET CAT. NO. 0 771 50 + PLUG CAT. NO. 0 782 07

Signals the end of a cycle via an alarm on the nurse call system.

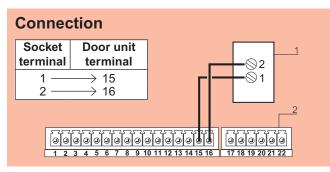
For connection to portable electrical medical devices such as syringe pumps, respirators, etc.

Comprises:

- Socket Cat. No. 0 771 50
- Shunt plug Cat. No. 0 782 07: For setting biomedical alarm to standby. Used with socket Cat. No. 0 771 50.

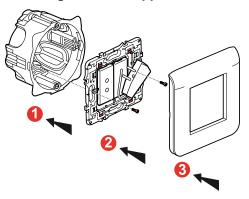
Technical characteristics

- Power supply: via door units Cat. No. 0 766 06 or 0 766 07
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Protection index: IP 20
- Overall dimensions (H x W): 45 x 22.5 mm
- Installation:
 - in 1-gang flush-mounting box with universal Batibox support Cat. No. 0 802 51
 - surface-mounted with box Cat. No. 0 802 81 and universal Batibox support Cat. No. 0 802 51
 - can be installed in trunking, bedhead strips or bedhead trunking units

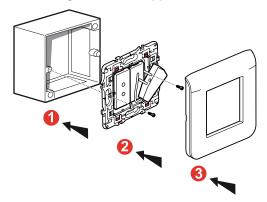


- 1 Biomedical call socket terminal block: 0 771 50
- 2 Door unit terminal block: 0 766 06/07

Flush-mounted wall installation in 1-gang flushmounting box with support Cat. No. 0 802 51

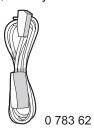


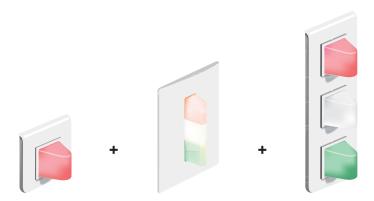
Flush-mounted wall installation in 1-gang flushmounting box with support Cat. No. 0 802 51



Application example for nursing home/residential care home

A push-button cord can be included for the armchair call unit. NO/NC contact, factory-wired as NC.



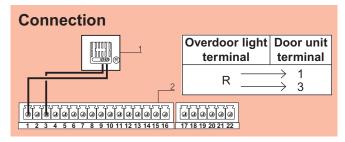


CORRIDOR OVERDOOR LIGHT UNITS

Transfer room status information to the corridor. For installation above doors.

Call only corridor overdoor light unit Cat. No. 0 766 71L

For call signalling (1 call).



- 1 Overdoor light terminal block: 0 766 71L
- 2 Door unit terminal block: 0 766 06/07

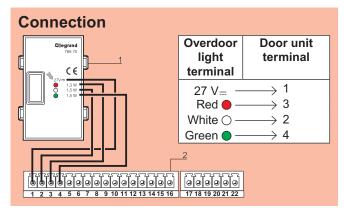
Call and nurse presence corridor overdoor light unit Cat. Nos. 0 766 70 and 0 766 76L

Used to signal calls, bathroom calls and nurse presence.

Triangular LED light units.

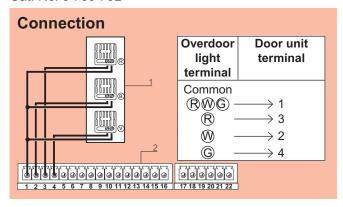
Recommended for compliance with VDE 0834-1, 0834-2 and DIN 41050 standards.

Cat. No. 0 766 70



- 1 Monobloc overdoor light terminal block: 0 766 70
- 2 Door unit terminal block: 0 766 06/07

Cat. No. 0 766 76L



- 1 Red, white, green overdoor light terminal block: 0 766 76L
- 2 Door unit terminal block: 0 766 06/07

Technical characteristics

• Power supply: 27 V= (via indicator power supply)

• Operating temperature: 5 to 40°C

• Storage temperature: -20 to 70°C

Protection index: IP 21

• Dimensions (H x W):

0 766 71L: 82 x 82 mm 0 766 70: 114 x 77.5 mm 0 766 76L: 153 x 82 mm

Installation:

- in flush-mounting box

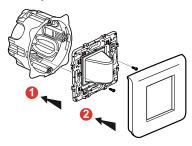
1-gang for Cat. No. 0 766 71L 1-gang for Cat. No. 0 766 70 3-gang for Cat. No. 0 766 76L

- surface-mounted

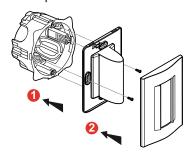
with box Cat. No. 0 802 81 for Cat. No 0 766 71L with box Cat. No. 0 802 83 for Cat. No. 0 766 76L

Flush-mounted wall installation with flushmounting box

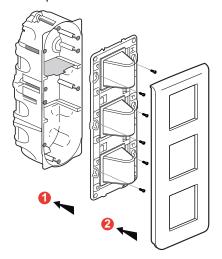
Principle for Cat. No. 0 766 71L



Principle for Cat. No. 0 766 70

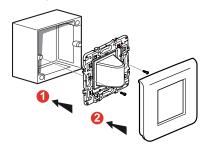


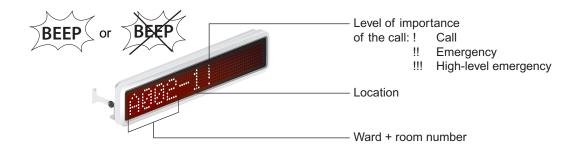
Principle for Cat. No. 0 766 76L



Surface-mounted wall installation with box

Principle for Cat. No. 0 766 71L





CORRIDOR DISPLAY UNITS CAT. NOS. 0 766 04 AND 0 766 05

Indication of calls and nurse presence by priority level. For installation in the corridor.

Supplied with power supply and interface.

Single display unit Cat. No. 0 766 04 and double display unit Cat. No. 0 766 05

Technical characteristics

• Power supply: 27 V...

• Max. consumption: 0 766 04: 8 W

0 766 05: 16 W

• Operating temperature: 5 to 40°C

• Storage temperature: -20 to 70°C

• Protection index: IP 42

• Dimensions (H x W x D): 108 x 518 x 47 mm

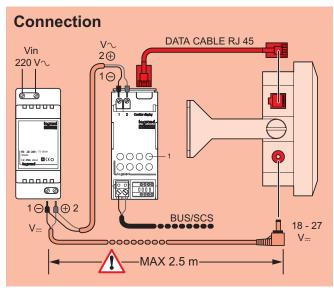
(0.766.04)

108 x 515 x 94 mm

(0.766.05)

• Installation:

- ceiling-mounted or wall-mounted
- projecting using accessory Cat. No. 0 766 03
- Sound level: 55 dB(A) at 2 m

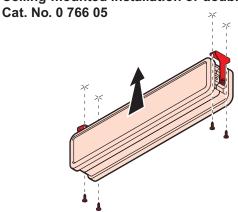


1 Virtual configuration button

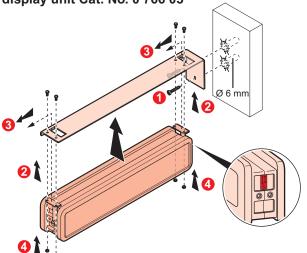
Wall-mounted installation of single display unit Cat. No. 0 766 04



Ceiling-mounted installation of double display unit



Projecting installation with accessory 0 766 03 for single display unit Cat. No. 0 766 04 or double display unit Cat. No. 0 766 05





- 1 BUS OUT terminals
- 2 Product status LED
- 3 Configurators
- 4 BUS IN terminals

BUS/SCS EXTENSION CAT. NO. 0 766 10

The BUS/SCS extension can be used to communicate information between two BUS/SCS nurse call systems. It is used where wards are grouped together or for wards of more than 50 rooms.

It has two bus linking terminals, marked IN and OUT. The front panel has a 'C' button for virtual configuration and an LED indicator:

- Correct power supply and configuration (on steady)
- BUS not connected (off)
- Missing or incorrect configuration (flashing)



A No declaration button for virtual configuration (use the ID).

With virtual configuration in standalone mode, use the power supply for kit 0 766 16 (on the IN input) + a second external BUS/SCS power supply (on the OUT output).

Technical characteristics

Power supply: 27 V_∞

· BUS power supply consumption during operation: 40 mA

 Operating temperature: 5 to 40°C • Storage temperature: -20 to 70°C • Dimensions: 4 DIN modules

Gateway version: Within a building allows extension of the number of wards (floors) by connection on the

vertical bus (see example of installation on p. 4). Max: 14 products connected on the vertical bus.

Repeater version: Within a ward

(Cat. No. 0 766 11) allows extension of the length of the BUS/SCS or an increase in the number of rooms.

Max: 2 devices per bus (on each floor).



TRACEABILITY SOFTWARE CAT. NO. 0 766 18

This software is used to memorise and record the date and time of events and also categorise them according to type (calls, nurse presence, acknowledgement, etc). For installation on a PC connected to the traceability interface Cat. No. 0 766 17 via the USB (type A) mini-USB (type A) cable.

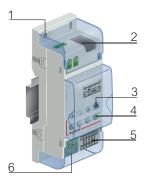
The software can be installed on a number of workstations.

Minimum system requirements

- PC equipped with a Pentium processor (1 GHz minimum)
- 512 MB (XP) or 1 GB (Vista/7) of RAM
- SVGA graphics card with 800 x 600 resolution, 256 colours
- 500 MB of hard disk space
- CD-ROM drive
- Mouse
- Windows XP (32-bit) Service Pack 2, Vista (32 and 64-bit), Windows 7 (32 and 64-bit)
- Microsoft .NET Framework 4.0
- A spreadsheet compatible with .csv files (eg: Excel, etc)
- · Internet access for remote control and troubleshooting



A The instructions for the traceability software can be found on the software CD.



- 1 27 V= indicator power supply terminals
- 2 Mini-USB connector
- 3 Virtual configuration button
- 4 Signalling LED
- 5 Space for configurators
- 6 BUS/SCS input terminal

System requirements:

- PC with Pentium processor ≥ 1 GHz
- RAM: 512 MB (XP) or 1 GB (Vista/7)
- SVGA graphics card with 800x600 pixels, 256 colours
- 500 MB of hard disk space available
- · CD-ROM drive
- Mouse
- Windows XP (32-bit) Service Pack 2, Vista (32 and 64-bit), Windows 7 (32 and 64-bit)
- · Microsoft .NET Framework 4.0
- · A spreadsheet compatible with .csv files (eg: Excel, etc)
- Internet access for remote control and troubleshooting

TRACEABILITY INTERFACE CAT. NO. 0 766 17

This interface is used to memorise all the events (up to 100,000 events: calls from patient rooms, calls from bathrooms, nurse presence and mute setting, biomedical alarm, system error, etc) that happen in a ward. The information is saved directly onto the device. The data can either be downloaded, or sent via RSS feed using the software Cat. No. 0 766 18 via the USB port.

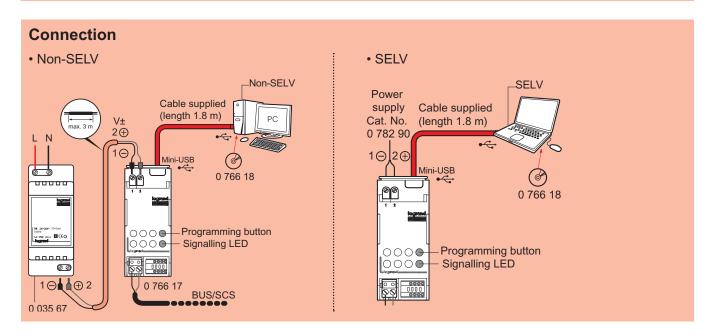
After the 100,000th event, depending on the chosen parameter setting, either no more records are possible, or the oldest records are overwritten.

USB (type A) - mini-USB (type A) cable supplied (length 1.8 m).

🖶 To have the traceability function, 1 interface must be installed per ward (1 interface cannot cover several wards, as it is monitored by the main nurses' control unit for its ward).

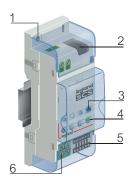
Technical characteristics

- Power supply: 27 V_—
- Indicator power supply consumption: 30 mA
- Bus power supply consumption: 4.5 mA
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- · Dimensions: 2 DIN modules



A To find out whether your computer is SELV or not, please refer to its power supply characteristics.





- 1 27 V= indicator power supply terminals
- 2 RJ11 ESPA 4.4.4. connector
- 3 Virtual configuration button
- 4 Signalling LED
- 5 Space for configurators
- 6 BUS/SCS input terminal

DECT INTERFACE CAT. NO. 0 766 19

This interface allows events to be transferred from the BUS system to the DECT system using the ESPA 4.4.4. protocol.



A To have the DECT function, 1 interface must be installed per ward (1 interface cannot cover several wards, as it is monitored by the main nurses' control unit for its ward).

Technical characteristics

Power supply: 27 V₌

• Indicator power supply consumption: 30 mA

• Bus power supply consumption: 4.5 mA

• Operating temperature: 5 to 40°C

• Storage temperature: -20 to 70°C

• Dimensions: 2 DIN modules

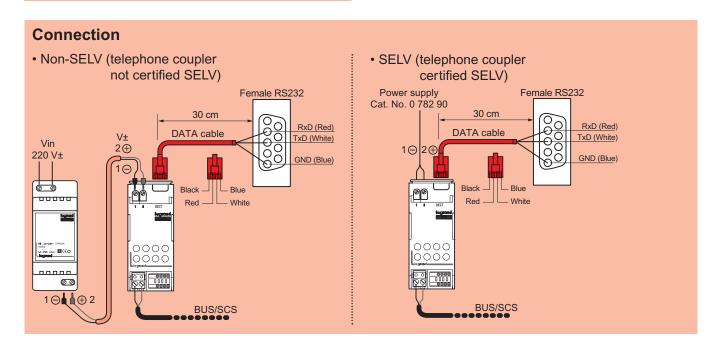
Communication settings

· Speed: 9600 bauds

• Data bits: 7

· Parity: Even

• Stop bit: 1





INFORMATION FEEDBACK INTERFACE CAT. NO. 0 766 78

This contact interface allows visual or audible information to be fed back from a given ward to a remote area a long way from this ward (eg: corridor, etc).

For installation in the place from which feedback needs to be sent.

Technical characteristics

• Power supply: 27 V...

• Bus power supply consumption:

- standby mode: 15 mA

- max: 47 mA

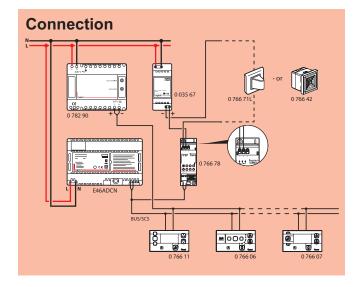
Operating temperature: 5 to 40°C

• Storage temperature: -20 to 70°C

• Dimensions: 2 DIN modules

· Double-insulated SELV safety device

	£]		
110 V √	440VA		440VA	
230 V √	920VA	4 A	920VA	4 A
12 V/√	48 VA	4 A	48VA	4 A
48 V/∼	192VA		192VA	



Audible information feedback (from buzzer Cat. No. 0 766 42)

	Audible si	gnal types	Description
0 s	5 s	10 s	Patient call
0 s	5 s	10 s 15	Bathroom call
0 s	5 s	10 s 15	Emergency call
0 s	5 s	10 s 15	High-level emergency call

Visual information feedback (from indicator Cat. No. 0 766 71L)

When a patient makes a call, regardless of its importance, the indicator lights up and stays on with a steady light until acknowledged by the nurse.

A This type of feedback does not take the call urgency into account



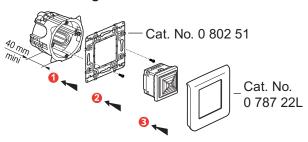
ELECTRONIC BUZZER CAT. NO. 0 766 42

Associated with an information feedback interface Cat. No. 0 766 78, this buzzer allows audible feedback of a call for amplification or transfer to a remote area.

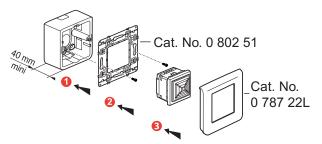
Technical characteristics

- Power supply: 27 V₌ (via power supply Cat. No. 0 035 67)
- Consumption: 9 mA
- Operating temperature: -10 to 55°C
- Storage temperature: -20 to 70°C
- Protection index: IP 41-IK 05
- Sound level: 80 dB(A) at 1 m
- Overall dimensions (H x W): 45 x 45 mm

Flush-mounted wall installation in 1-gang screw flush-mounting box



Surface-mounted wall installation with box Cat. No. 0 802 81





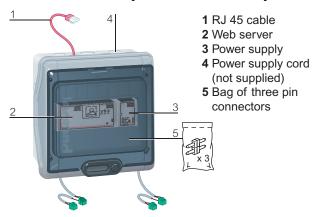
NURSE CALL CONFIGURATOR SOFTWARE CAT. NO. 0 766 15

This software is used for virtual configuration of the installation.

Used with configuration kit Cat. No. 0 766 16.

Minimum system requirements

- PC equipped with a Pentium processor (2 GHz minimum)
- 512 MB (XP) or 1 GB (Vista/7) of RAM
- SVGA graphics card with 800 x 600 resolution, 256 colours
- 500 MB of hard disk space
- CD-ROM drive
- Mouse
- Windows XP (32-bit) Service Pack 2, Vista (32 and 64-bit)
- Microsoft .NET Framework 3.5



CONFIGURATION KIT CAT. NO. 0 766 16

This kit is used to configure hospital system products. To do this, it needs to be connected to a PC equipped with the Nurse Call Configurator software (0 766 15). It can be used independently of the installation (standalone) or connected to the existing installation.

Technical characteristics

• Supply voltage: 220 - 240 V \sim - 50/60 Hz

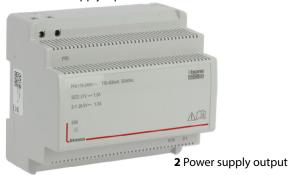
Output voltage: 27 V₌

Operating temperature: 0 to 45°C
Storage temperature: -20 to 70°C

Conforms to NF C 15-100



1 Power supply input



1 Power supply input



2 Power supply output

BUS/SCS POWER SUPPLY CAT. NO. BT E56

The power supply should be used to power the system's communication bus (BUS/SCS).

It also allows operation in a degraded mode, if the indicator power supply is no longer detected. Bus communication will therefore continue to work, but not the individual local indicators.

Double-insulated SELV safety device.

BUS/SCS POWER SUPPLY FOR INTERPHONES CAT NO. BT 346050

The power supply should be used to power the system's communication bus (BUS/SCS) in instances of installations with an interphone unit.

It also allows operation in a degraded mode, if the indicator power supply is no longer detected. Bus communication will therefore continue to work, but not the individual local indicators.

Double-insulated SELV safety device.

Technical data

PRI (AC power supply input)

• Rated voltages :	110 - 240 VCA
• Rated currents :	730 - 400 mA
Operating frequency range :	50 - 60 Hz
• Power consumption - full load :	40 W max
• Power consumption :	8 W max
• Full load yield :	80 % typ.
• Stand by power :	< 1 W
Operating temperature :	(-10) - (+55)°C
• Integrated fuse (PRI side):	F1T3, 15A 250V

Rated output data (SCS)

• Rated voltage :	27 Vcc
• Rated current :	1,2 A
• Rated power :	32,4 W

Rated output data (for clamps 2 - 1)		
• Rated voltage :	28,5 Vc	
• Rated current :	1,2 A	
• Rated power :	34,2 W	

Dimensional data

• Dimensional data: 6 DIN modules

Technical data

PRI (AC power supply input)

Rated voltage :	110 - 240 V
• Rated current :	730 - 400 mA
 Operating frequency range : 	50 - 60 Hz
 Power consumption - full load : 	40 W max
Power consumption :	8 W max
 Full load efficiency: 	80 % typ.
• Stand by power :	< 1 W
 Operating temperature : 	(-10) - (+55)°C
Integrated fuse (PRI side):	F1T3, 15A 250V

TK BUS, IU BUS, SCS

Rated voltage:	27 VCC
• Rated current :	1,2 A
• Rated power :	32,4 W
1-2	

• Rated voltage :	28,5 Vc
• Rated current :	1,2 A
• Rated power :	34,2 W

Dimensional data

• Dimensional data: 6 DIN modules



- 1 Power supply input
- 2 Output
- 3 Signalling LED
 - Green LED = normal operation
 - Red LED = overload

INDICATOR POWER SUPPLY CAT. NO. 0 782 90

This power supply should be used to power signalling indicators and those on door units, nurses' control units, overdoor light units, etc.

Double-insulated SELV safety device.

Technical characteristics

- Supply voltage: 230 V \sim ± 10% 50/60 Hz
- Output voltage: 29 V₌
- · Max. current: 2 A
- Max. consumption: 64.5 W
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Protection index: IP 30
- Dimensions: 6 DIN modules
- Installation without interphones:

1 power supply for 25 directions*

- Installation with interphones:
- 1 power supply for 16 directions*
- * Direction: rooms from which the calls originate



AUXILIARY POWER SUPPLY CAT. NO. BT E49

Used to supply DECT interface Cat. No. 0 766 19, traceability interface Cat. No. 0 766 17 and corridor display units Cat. Nos. 0 766 04/05.

Double-insulated SELV safety device.

Technical characteristics

- Supply voltage: 230 V \sim
- BUS output voltage: 27 V...
- BUS max. current: 600 mA
- Max. power: 21.5 W
- Max. consumption: 26.8 W
- Operating temperature: 5 to 40°C
- Storage temperature: -20 to 70°C
- Protection index: IP 20
- Dimensions: 2 DIN modules



CABLE CAT. NO. 0 492 72 (200 metres) and CABLE CAT. NO. 0 492 75 (500 metres) from 18W17 UPWARDS

Cable Cat. No. 0 492 72 replaces Cat. No. 0 492 33 from 11W45 to 18W16.

Cable Cat. No. 0 492 75 replaces Cat. No. 0 492 73 from 11W45 to 18W16.

Halogen-free BUS/SCS cable used to connect communicating products in the nurse call system. This cable takes account of the new 2017 standards. It should be used in commercial buildings subject to fire resistance regulations.

Reference standards

The cable complies with the requirements of standards: EN 50290, EN 50395, EN 50575. According to standard EN 50575 of regulation EU No. 305/2011, the cable is classified Cca-s1b, type 1 cable.

Technical characteristics

- Sheath colour: white (RAL 9010)
- Outer diameter: 7.3 mm
- Number of wires: 2 unshielded flexible twisted wires with a sheath
- Wire colour: brown brown/white
- Wire cross-section: 0.56 mm²
- Conductor material: red electrolytic copper
- Electrical resistance: less than 72 Ω /km
- Operating temperature: -15 to 70°C
- Short-circuit temperature: 150°C max.
- Storage temperature: -20 to 70°C
- Length: 200 m/500 m on a drum

Installation

The cable must be installed in ELV cable ducting. If installed underground (between buildings), it must be installed in dedicated ELV conduit.



- 1 Wrist strap activation magnet
- 2 Detection LED (orange)
- 3 Status LED (green)
- 4 Code keypad
- 5 Enter key
- 6 Cancel key
- **7** Buzzer

SECURE WANDERING SYSTEM

Signals that a door has been passed through by a resident wearing a wrist strap Cat. No. 0 766 20. Works with door unit Cat. No. 0 766 06 configured for secure wandering and allowing acknowledgement.

Door controller Cat. No. 0 766 22

The door controller retrieves information from antenna Cat. No. 0 766 21 and door contact Cat. No. 0 431 00 and either triggers a nurse call or locks the door, depending on its operating mode. If the door is locked, it can be unlocked using special codes.

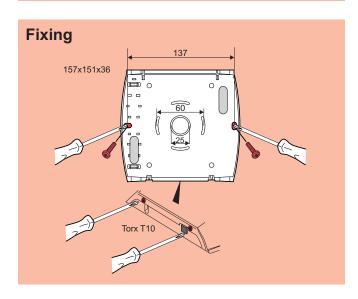
The coded keypad picks up the wrist strap signal when a resident passes through a predefined door. Requires a 12 V= modular power supply.

Technical characteristics

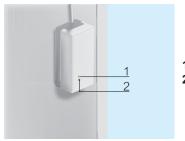
• Power supply: 12 V₌

• Dimensions (H x W x D): 120 x 150 x 50 mm

- · Wall-mounted with screws
- Operating temperature: 0 to 45°C
- Storage temperature: -20 to 70°C



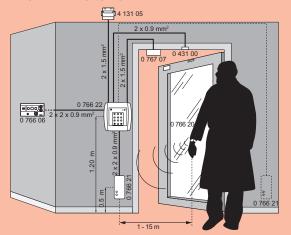
Connection • From 11W45 to 15W27 200 n STI OS 15W28 upwards 200 m



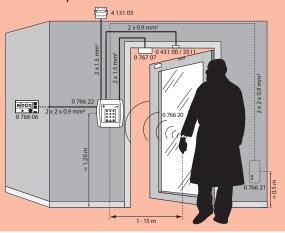
1 Status LED (green)
2 Detection LED (red)

Mounting

• From 11W45 to 15W27



• 15W28 upwards







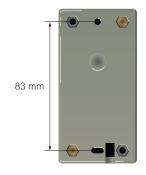
Antenna Cat. No. 0 766 21

Receives the wrist strap signal and transmits it to the controller Cat. No. 0 766 22. It is possible to adjust the antenna's range (approx. 1 to 15 m).

Technical characteristics

- Power supply: via door controller Cat. No. 0 766 22
- Dimensions (H x W x D): 50 x 100 x 40 mm
- · Wall-mounted with screws
- Operating temperature: 0 to 45°C
- Storage temperature: -20 to 70°C

Fixing



Wrist strap Cat. No. 0 766 20 (17W01)

Fitted with an 869 MHz radio transmitter.
Permanent fixing.
Commissioning: see the secure wandering manual LE04653.
The batteries should be changed every year.



Technical characteristics

- IP 67
- Anti-allergy
- Colour: white transmitter and black wrist strap

Operating modes

CALL + NURSE PRESENCE

This is the basic programme for all hospital signalling installations.

It provides all essential functions as standard, and can be extended with Secure Wandering and Interphone functions.

Scenario 1:

1 - Patient calls from the room



The patient calls by pressing a button on the hand-held remote control unit.



The door unit signals the call and emits an audible alarm.

2 - Nurse present in the room



The nurse signals their presence on the door unit.



The door unit switches off the audible alarm.

3 - Nurse hangs up the call



The nurse signals that the call has been dealt with.





The door unit turns off.



The red indicator on the corridor overdoor light comes on with a steady light.



The corridor display unit signals the room making a call.



The nurses' station control unit signals the room making a call and emits an audible alarm.



The green indicator on the corridor overdoor light also comes on with a steady light.



The corridor display unit signals the presence of a nurse.



The nurses' station control unit signals the nurse's presence in the room.



All the indicators on the corridor overdoor light turn off.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

BATHROOM CALL + NURSE PRESENCE

Scenario 2:

1 - Patient calls from the bathroom







The door unit signals the call and emits an audible alarm.

2 - Nurse present in the room



The nurse signals their presence on the door unit.



The door unit switches off the audible alarm.

3 - Nurse hangs up the call



The nurse signals that the call has been dealt with.





The door unit turns off.



The red and white indicators on the corridor overdoor light come on with a steady light.



The corridor display unit signals the room making a call (bathroom call signalled).



The nurses' station control unit signals the room making a call.



The green indicator on the corridor overdoor light also comes on with a steady light.



The corridor display unit signals the presence of a nurse.



The nurses' station control unit signals the nurse's presence in the room.



All the indicators on the corridor overdoor light turn off.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

CALL + NURSE PRESENCE + NURSE ASSISTANCE (EMERGENCY CALL)

Scenario 3:

- 1 Patient calls from the room (see scenario 1 Call + Nurse Presence)
- 2 Nurse present in the room
- 3 Nurse requests assistance



The nurse requests assistance from another nurse by pressing the call button on the door unit.

OR



The nurse requests assistance from another nurse by pressing the call button on the hand-held remote control unit.



The call button begins to flash red and emits a rapid audible alarm.

4 - Nurse assistance present in the room



The second nurse signals their presence on the door unit.

5 - Call is hung up (see scenario 1 Call + Nurse Presence)



The door unit switches off the audible alarm.



The red indicator flashes and the green indicator remains on with a steady light.



The corridor display unit signals the room making the call.



The nurses' station control unit signals the room making a call and emits a more rapid audible alarm.



The red and green indicators on the corridor light unit come on with a steady light.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

BATHROOM CALL + NURSE PRESENCE + NURSE ASSISTANCE (EMERGENCY CALL)

Scenario 4:

- 1 Patient calls from the bathroom (see scenario 2 Bathroom Call + Nurse Presence)
- 2 Nurse present in the room
- 3 Nurse requests assistance

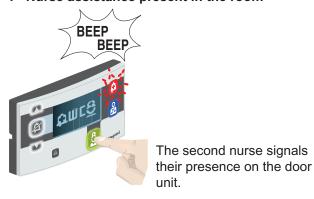


The nurse requests assistance from another nurse by making a call using the bathroom pull-cord, the call button on the hand-held remote control unit or the call button on the door unit.



The call button begins to flash red and emits a rapid audible alarm.

4 - Nurse assistance present in the room





The door unit switches off the audible alarm.

5 - Call is hung up (see scenario 2 Bathroom Call + Nurse Presence)



The red indicator flashes and the green and white indicators remain on with a steady light.



The corridor display unit signals the room making a call (bathroom call signalled).



The nurses' station control unit signals the room making a call and emits a more rapid audible alarm.



The red and green indicators on the corridor light unit come on with a steady light.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

CALL + NURSE PRESENCE + HIGH-LEVEL EMERGENCY CALL (DOCTOR OR CRASH TEAM)

Scenario 5:

- 1 Patient calls from the room (see scenario 1)
- 2 Nurse present in the room (see scenario 1)
- 3 Nurse requests high-level assistance (doctor or crash team)



The nurse requests high-level emergency assistance from the crash team by pressing the call button on the door unit.





The call button begins to flash and emits a very rapid audible alarm.

4 - Medical professionals present in the room



The medical professionals signal their presence on the door unit.

The door unit switches off the audible alarm.

5 - Call is hung up (see scenario 1 Call + Nurse Presence)



The red indicator flashes quickly.



The corridor display unit signals the room making the call.



The nurses' station control unit signals the room making a call and emits a more rapid audible alarm.



The red indicator on the corridor overdoor light comes on with a steady light.



The corridor display unit no longer signals this call.



The nurses' station control unit no longer signals this call.

Operating modes (continued)

BATHROOM CALL + NURSE PRESENCE + HIGH-LEVEL EMERGENCY CALL (DOCTOR OR CRASH TEAM)

Scenario 6:

- 1 Patient calls from the room (see scenario 2)
- 2 Nurse present in the room (see scenario 2)
- 3 Nurse requests high-level assistance



The nurse requests high-level emergency assistance from the crash team by pressing the call button on the door unit.





The door unit signals the call and emits a very rapid audible alarm.

4 - Medical professionals present in the room



The medical professionals signal their presence on the door unit.



E om

The door unit switches off the audible alarm.

5 - Call is hung up (see scenario 1 Call + Nurse Presence)



The red indicator flashes quickly.



The corridor display unit signals the room making a call (bathroom call signalled).



The nurses' station control unit signals the room making a call and emits a more rapid audible alarm.



The red and white indicators on the corridor overdoor light come on with a steady light.



The corridor display unit no longer signals this call.



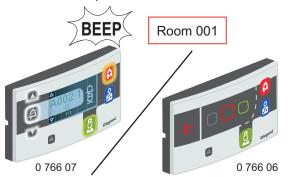
The nurses' station control unit signals the nurse's presence in the room.

Operating modes (continued)

CALL FORWARDING BETWEEN ROOMS IN THE PRESENCE OF A NURSE

Scenario 7:

- 1 Patient in room 001 calls for a nurse
- 2 Nurse goes to that room and confirms their presence
- 3 Another patient in room 002 calls for a nurse
- 4 Call-forwarding between rooms:
 - 1 To door unit 0 766 06: the indicators lighting up allow the nurse to be alerted (not possible to identify which room they come from)
 - 2 To door unit 0 766 07: the call is displayed on screen (indication of call from room 002 for the nurse in room 001). The door unit then assumes the role of main nurses' control unit.

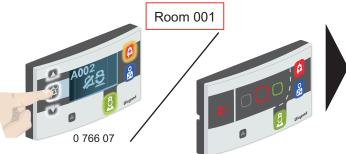


The door unit signals the call from the room (indicating the room number on the display unit) and emits an audible alarm.



The door unit signals the call and emits an audible alarm.

5 - The new call is acknowledged (muting)



The nurse indicates acknowledgement of the new call and the audible alarm is switched off.

Muting not possible on 0 766 06



The door unit signals the call.

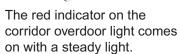
The audible alarm is switched off.

Room 002

- 6 Nurse present in room 002 (see scenario 1)
- 7 Call is hung up (see scenario 1)
 - Nurse requests assistance (see scenario 1)



Room 002





The corridor display unit signals the most recent call.



The nurses' station control unit signals the rooms making calls.



The red indicator on the overdoor light unit remains on.



The corridor display unit signals the room making a call.



The nurses' station control unit signals the room making a call.

Operating modes (continued)

PATIENT CALL WITH INTERPHONE INSTALLATION

1 - Patient calls from room



The patient calls by pressing a button on the hand-held remote control unit (scenario 1).



The nurses' station control unit signals the room making a call and emits an audible alarm.

2 - End of conversation. The call remains live



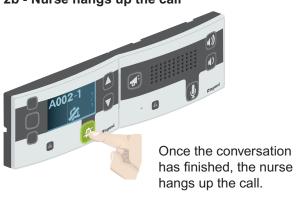
Once the call has been dealt with, the nurse ends the conversation.



The nurses' station control unit still signals the call.

OR

2b - Nurse hangs up the call

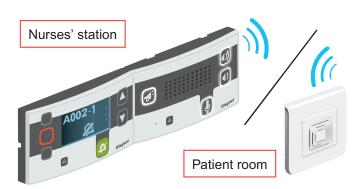




The door unit switches off.



The nurse makes contact with the patient.



The audible alarm is switched off. The nurse and the patient can talk.



The door unit remains in call mode.



The nurses' station control unit no longer signals this call.

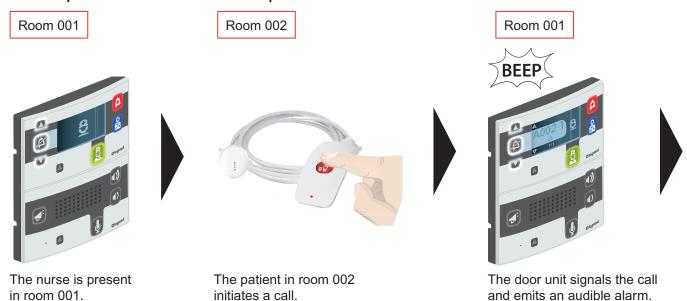


A The system automatically cuts off interphone communication after 1 minute

Operating modes (continued)

INTER-ROOM CALL (1)

1- Nurse present in room 1 and call from patient in room 2



2- Nurse hangs up the call



Once the conversation has finished, if the nurse does not need to move, they hang up.

The interphone unit switches off, communication has ended. The nurse's presence continues to be indicated on the door unit.



The nurse takes the call.

Room 001



The nurse makes contact with the patient. The audible alarm is switched off.

2b - End of conversation. The call remains live



Once the conversation has finished, if the nurse needs to go to room 002, they simply cut interphone communication.



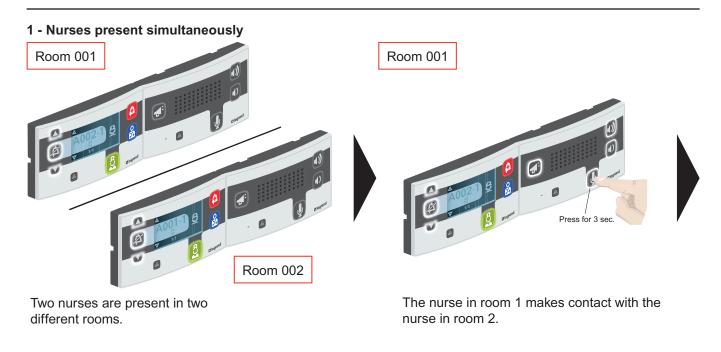
The interphone unit switches off, communication has ended but the nurses' station control unit still signals the call.



The system automatically cuts off interphone communication after 1 minute

Operating modes (continued)

INTER-ROOM CALL (2)



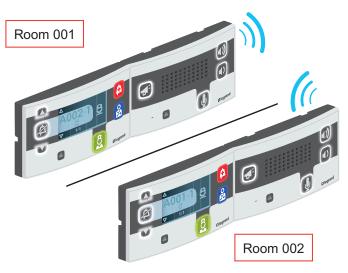
2 - Nurse hangs up the call



Once the conversation has ended, the nurse in room 1 ends communication by pressing the microphone button again.



The interphone units switch off, communication has ended. The presence of nurses continues to be indicated on the door units.



The two nurses can talk to one another.

Operating modes (continued)

GENERAL CALL

1 - General call from the nurses' station



The nurse initiates a general call from the nurse's station control unit by holding down the megaphone button.

OR 1b - General call from a door unit with a nurse present



The nurse initiates a general call from the door unit by holding down the megaphone button.



All the room door units broadcast the general call.

2 - End of general call



Once the call is complete, the nurse ends communication by releasing the megaphone button.



All the room door units switch off, communication has ended.



Calls are broadcast from the nurses' control unit to the door unit of all rooms in the ward.



 $oldsymbol{lambda}$ If the yellow icon only lights up when the megaphone is pressed $oldsymbol{ o}$ check the indicator power supplies. Remember you need one indicator power supply Cat. No. 0 782 90 for 16 rooms.

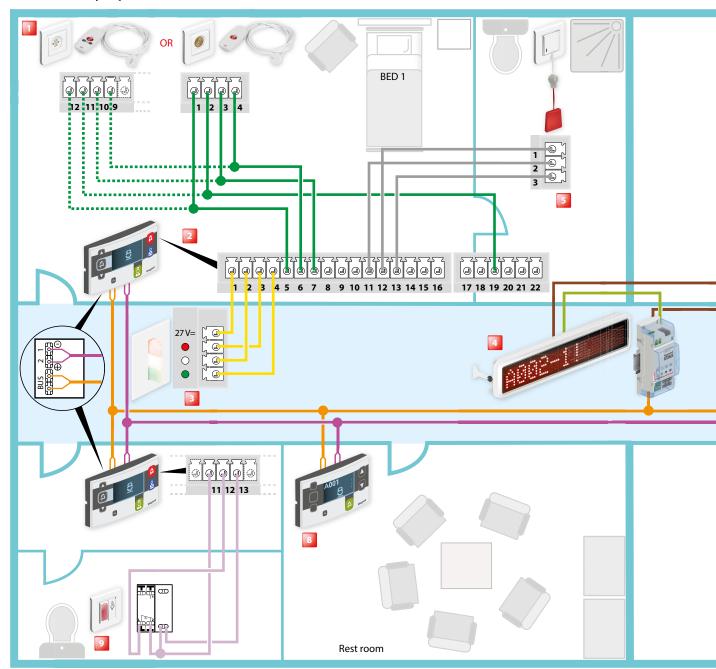
Call urgency/priority levels

	CALL TYPE	CONTROL DEVICE	CORRIDOR OVERDOOR LIGHT UNIT	NURSES' CONTROL UNIT
PRIORITY	Bathroom high-level emergency call (code blue)	+ 💆 + 🚰	Flashing quickly	A001-W PEEP EEP EEP EEP EEP EEP EEP EEP EEP E
	Room high- level emergency call (code blue)	+ 💆 + 🕰 OR 1 + 💆 + 🛣	Flashing quickly	A001-1 DEEP Chupma
	Bathroom emergency call (assis- tance)	+ 2 +	Flashing slowly	A001-W QUIC Columns
	Room emergency call (assis- tance)	OR (2) + (2) + (2) + (2) + (3) + (4) (4) + (4) (4) + (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	Flashing slowly	A001-1 A001 A001
	Escape alarm		Flashing slowly	A001 A Giyasa
	Biomedical alarm	OR OR	Flashing slowly	A001-B Accordance of the second seco
	Bathroom call			A001-W DEEP COMMAND
	Patient room bed 1 call			A001-1 DEEP
	Patient room call	A		A001 BEEP(

CORRIDOR DISPLAY UNIT	DOOR UNIT WITH SCREEN	CALL LEVEL	MUTING	
BP. BP. BP. BP.	EEP SEEP SEEP SEEP SEEP SEEP SEEP SEEP	High-level	NO	PRIORITY
BP B	Chapsel	emergency call BEEP BEEP BEEP	NO	
phr _{ay} (A CAUCE & Chapman		NO	
br _{BP}	Chyprid Chyprid	Emergency call	NO	
Phone Company	A A A Cologned		NO	
BP _{BP}	A S Chyprel		NO	
PODI-UI BP	WC & SEEK		NO	
BP	A BEEP BEEP BEEP BEEP BEEP BEEP BEEP BEE	Simple call	YES	
BPC			YES	

Wiring: call + nurse presence + biomedical installation

A Do not fully clip on the door units

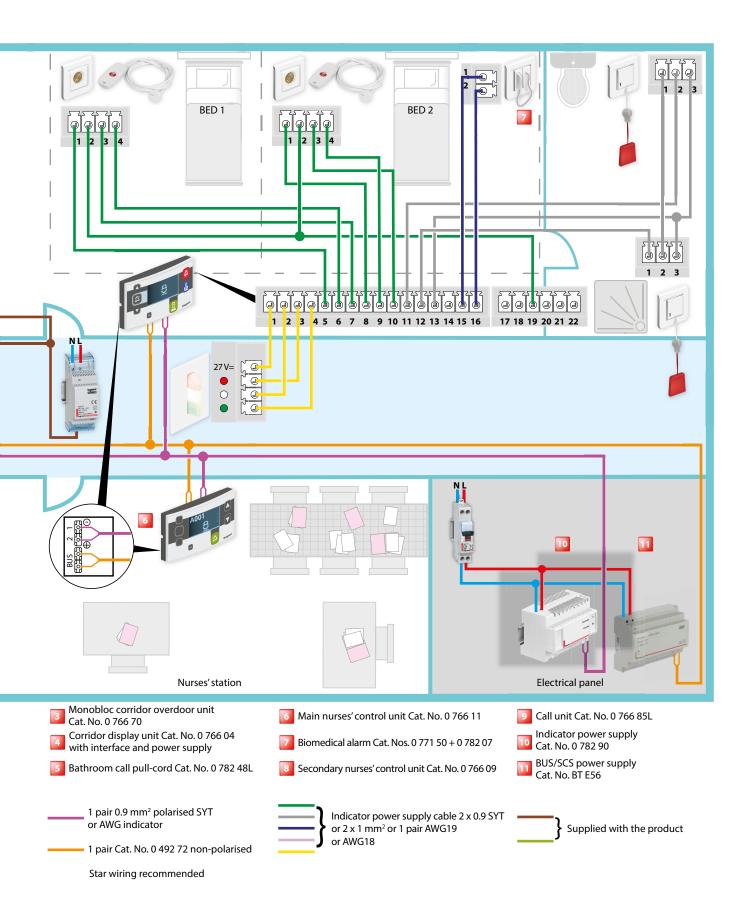


- Socket + hand-held remote control unit for call Cat. Nos. 0 782 45/47 + 0 782 82/84 or socket + hand-held remote control unit for call Cat. Nos. 0 782 41/46L + 0 782 40/81
- Door unit with display unit Cat. Nos. 0 766 07/06

Description Description Lamp common 10 Bed 2 hand-held control unit call indicator White lamp 11 Bathroom pull-cord common 3 Red lamp 12 Bathroom pull-cord contact Green lamp 13 Bathroom pull-cord indicator Bed 1 hand-held control unit common 14 Bathroom call acknowledgement button (optional) Bed 1 hand-held control unit call button 15 Biomedical contact common Bed 1 hand-held control unit call indicator Biomedical contact 16 Bed 2 hand-held control unit common 19 Beds 1 and 2 hand-held control unit backlight Bed 2 hand-held control unit call button

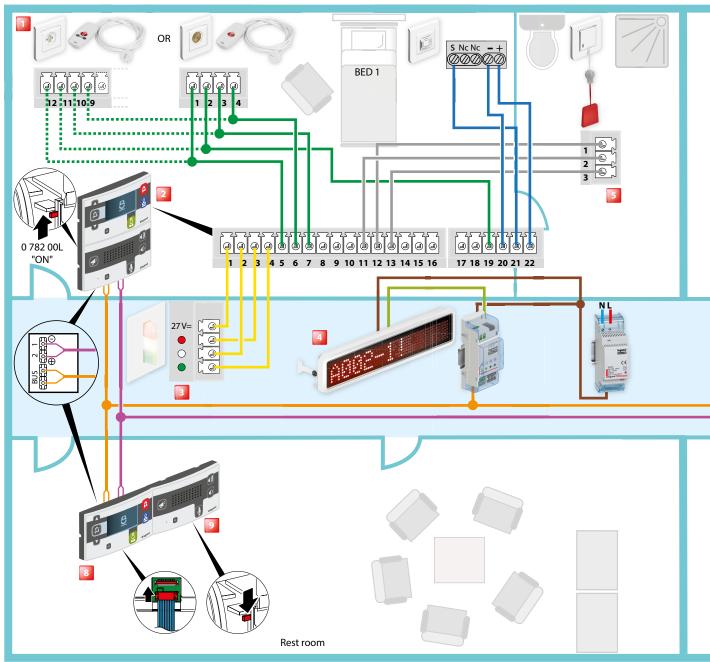
If monitor lights or overdoor light units are not being used, replace them with 100 k Ω /0.25 W resistors If the call contact is not being used, short-circuit the corresponding terminals

Removing the door unit



Wiring: call + nurse presence + biomedical installation

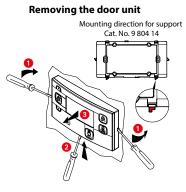
A Do not fully clip on the door units



- Socket + hand-held remote control unit for call Cat. Nos. 0 782 45/47 + 0 782 82/84 or socket + hand-held remote control unit for call Cat. Nos. 0 782 41/46L + 0 782 40/81
- Door unit with display unit Cat. Nos. 0 766 07/06

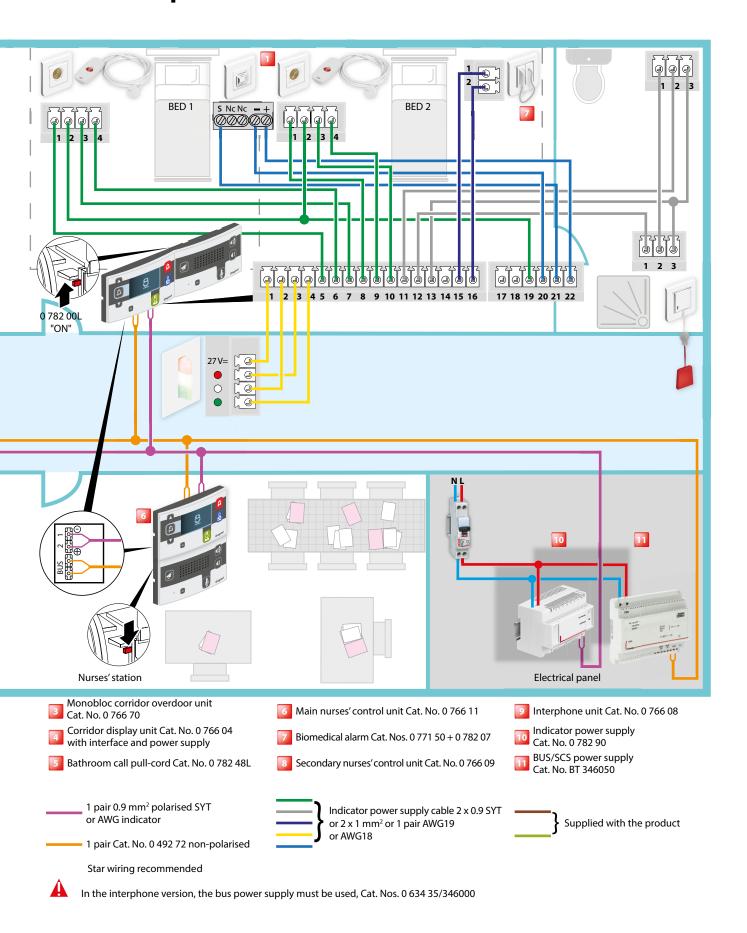
Terminal	Description	Terminal	Description
1	Lamp common	10	Bed 2 hand-held control unit call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Bed 1 hand-held control unit common	14	Bathroom call acknowledgement button (optional)
6	Bed 1 hand-held control unit call button	15	Biomedical contact common
7	Bed 1 hand-held control unit call indicator	16	Biomedical contact
8	Bed 2 hand-held control unit common	19	Beds 1 and 2 hand-held control unit backlight
9	Bed 2 hand-held control unit call button	20	Microphone earth
		21	Microphone input
		22	Microphone + 27 V

If monitor lights or overdoor light units are not being used, replace them with 100 k Ω /0.25 W resistors If the call contact is not being used, short-circuit the corresponding terminals



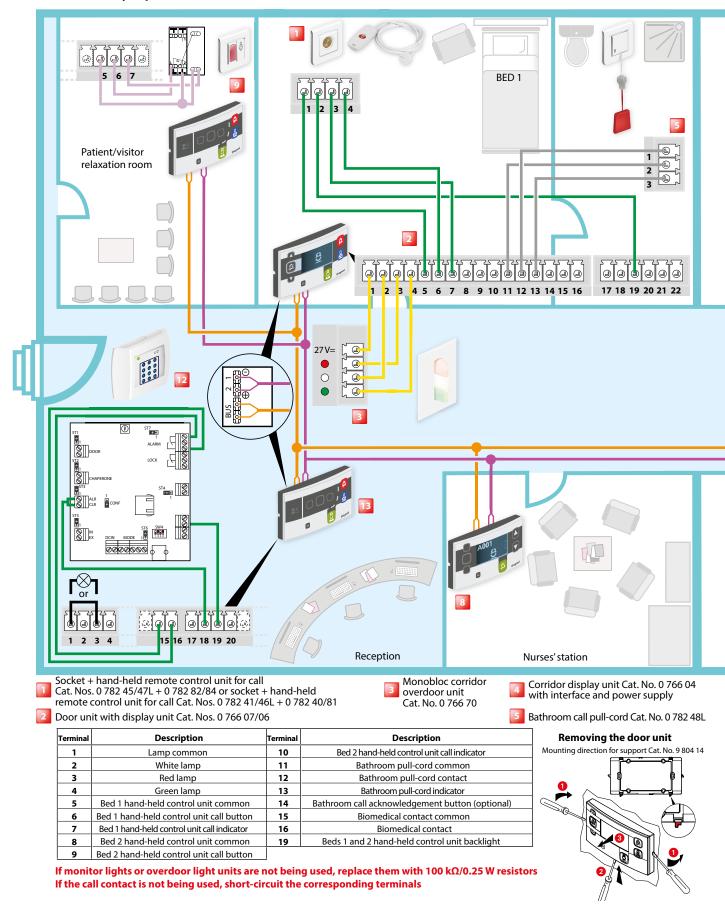


with interphone



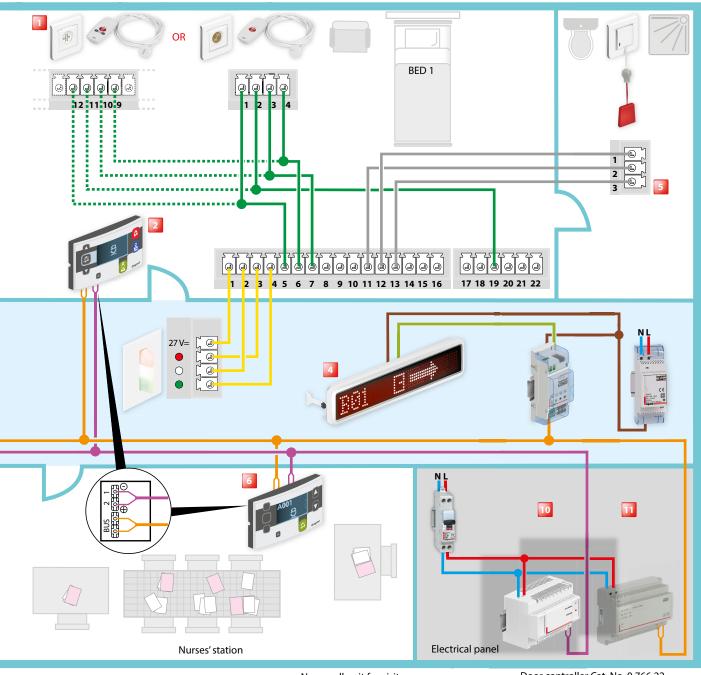
Wiring: secure wandering installation with call

A Do not fully clip on the door units





+ nurse presence



- Main nurses' control unit Cat. No. 0 766 11
- Biomedical alarm Cat. Nos. 0 771 50 + 0 782 07
- Secondary nurses' control unit Cat. No. 0 766 09
- 1 pair 0.9 mm² polarised SYT or AWG indicator
- 1 pair Cat. No. 0 492 72 non-polarised
 - Star wiring recommended

- Nurse call unit for visitors Cat. No. 0 766 85L
- 10 Indicator power supply Cat. No. 0 782 90
- BUS/SCS power supply Cat. No. BT E56
- Indicator power supply cable 2 x 0.9 SYT or 2 x 1 mm² or 1 pair AWG19 or AWG18
- Supplied with the product

- Door controller Cat. No. 0 766 22 (See instructions for completing the wiring and associated guide)
- Door unit with indicators

 Cat. No. 0 766 06 (M1=8 operation

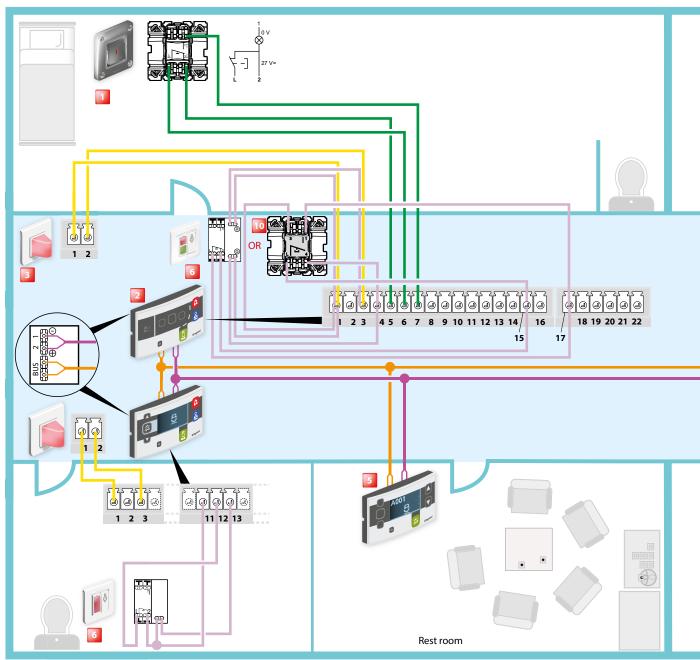
in secure wandering mode)

Terminal	Description	
15 Contact common		
16	Contact closed	
18 Acknowledgement		
19 Earth		

Short-circuit the terminals between 1 and 3 if overdoor light unit 0 766 71L is not used

Wiring: penal/psychiatric institution call installation

A Do not fully clip on the door units

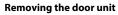


High-resistance call unit Cat. No. 0 782 51

Door unit Cat. No. 0 766 06

5001 drift Cat. No. 0 700 00			
Terminal	Description	Terminal	Description
1	Lamp common + 24 V	10	Push-button 2 call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Push-button 1 common	14	Bathroom call acknowledgement button (optional)
6	Push-button 1 call button		Biomedical contact common/
7	Push-button 1 call indicator	15	acknowledgement button + 24 V
8	Push-button 2 common	16	Biomedical contact
9	Push-button 2 call button	17	Remote acknowledgement push-button

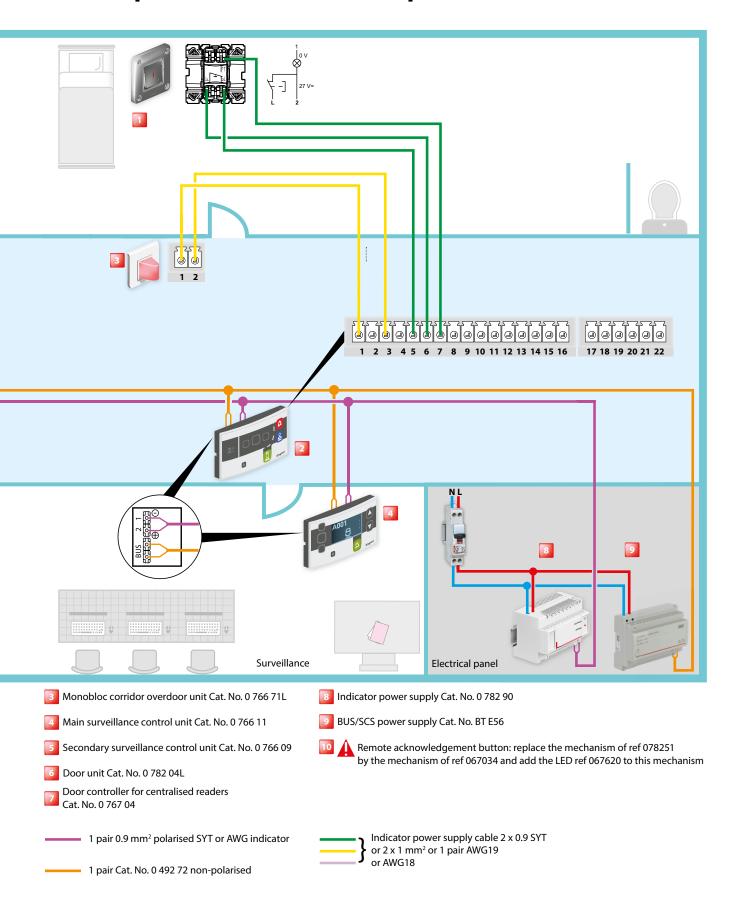
If monitor lights or overdoor light units are not being used, replace them with 100 $k\Omega/0.25\,W$ resistors If the call contact is not being used, short-circuit the corresponding terminals





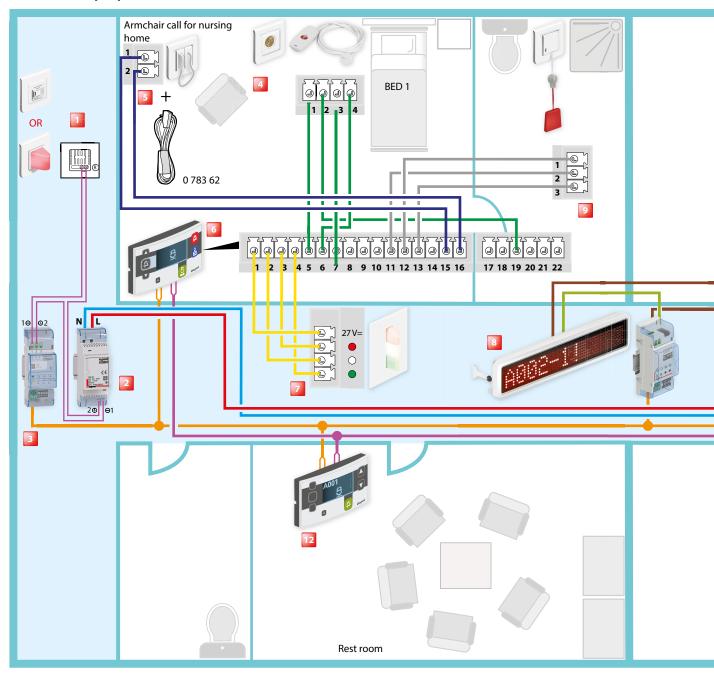


with remote acknowledgement by Mosaic push-button or Soliroc push-button



Wiring: call + nurse presence + armchair call installation

A Do not fully clip on the door units



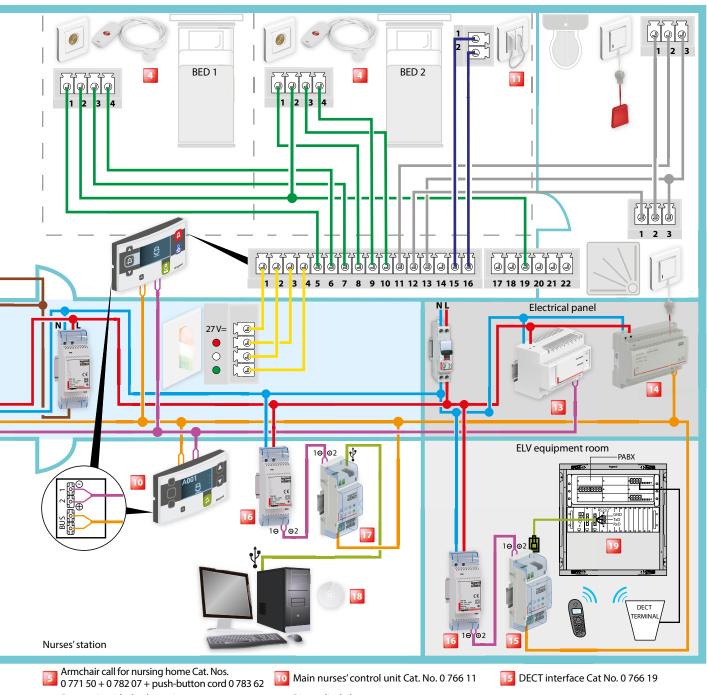
- Electronic buzzer Cat. No. 0 766 42 or Call only corridor overdoor light unit Cat. No. 0 766 71L
- Information feedback interface Cat. No. 0 766 78 Socket + hand-held remote control unit for call Auxiliary power supply Cat. No. 0 035 67 Cat. Nos. 0 782 41/46L + 0 782 40/81

Terminal	Description	Terminal	Description
1	Lamp common	10	Bed 2 hand-held control unit call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Bed 1 hand-held control unit common	14	Bathroom call acknowledgement button (optional)
6	Bed 1 hand-held control unit call button	15	Biomedical contact common
7	Bed 1 hand-held control unit call indicator	16	Biomedical contact
8	Bed 2 hand-held control unit common	19	Beds 1 and 2 hand-held control unit backlight
9	Bed 2 hand-held control unit call button		

If monitor lights or overdoor light units are not being used, replace them with 100 k Ω /0.25 W resistors If the call contact is not being used, short-circuit the corresponding terminals



+ biomedical + information feedback + traceability interface + DECT interface



- Door unit with display unit Cat. Nos. 0 766 07/06
- Monobloc corridor overdoor unit Cat. No. 0 766 70
- Corridor display unit Cat. No. 0 766 04 with interface and power supply
- Bathroom call pull-cord Cat. No. 0 782 48L
- 1 pair 0.9 mm² polarised SYT or AWG indicator
- 1 pair Cat. No. 0 492 72 non-polarised

Star wiring recommended

- Biomedical alarm Cat. Nos. 0 771 50 + 0 782 07
- Secondary nurses' control unit Cat. No. 0 766 09
- Indicator power supply Cat. No. 0 782 90
- BUS/SCS power supply Cat. No. BT E56

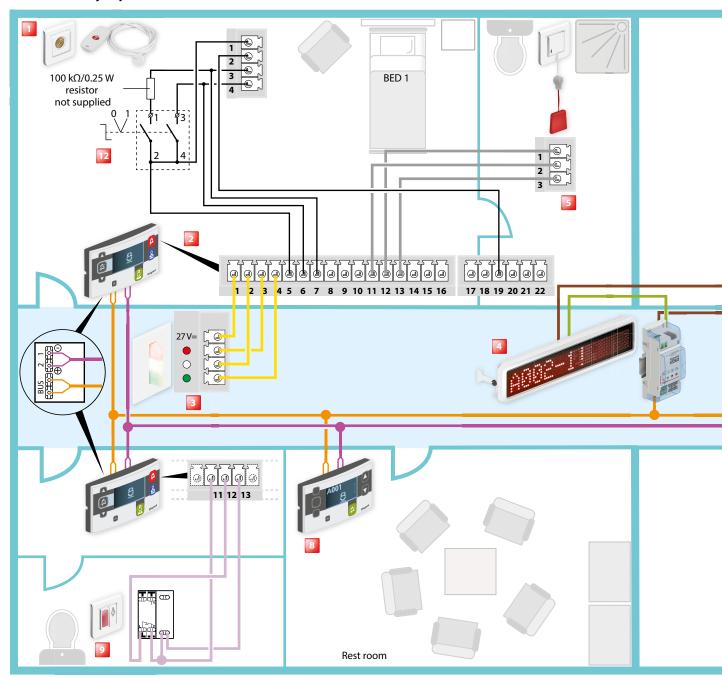
- 16 Auxiliary power supply Cat. No. 0 035 67
- Traceability interface Cat. No. 0 766 17
- Traceability software Cat. No. 0 766 18
- Telephone coupler (telephony package)

Indicator power supply cable 2 x 0.9 SYT or 2 x 1 mm² or 1 pair AWG19 or AWG18



Wiring: with keyswitch which allows the hand-held

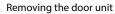
A Do not fully clip on the door units

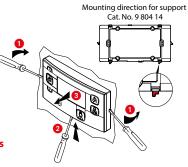


- Socket + hand-held remote control unit for call Cat. Nos. 0 782 45/47 + 0 782 82/84 or socket + hand-held remote control unit for call Cat. Nos. 0 782 41/46L + 0 782 40/81
- Door unit with display unit Cat. Nos. 0 766 07/06

Terminal	Description	Terminal	Description
1	Lamp common	10	Bed 2 hand-held control unit call indicator
2	White lamp	11	Bathroom pull-cord common
3	Red lamp	12	Bathroom pull-cord contact
4	Green lamp	13	Bathroom pull-cord indicator
5	Bed 1 hand-held control unit common	14	Bathroom call acknowledgement button (optional)
6	Bed 1 hand-held control unit call button	15	Biomedical contact common
7	Bed 1 hand-held control unit call indicator	16	Biomedical contact
8	Bed 2 hand-held control unit common	19	Beds 1 and 2 hand-held control unit backlight
9	Bed 2 hand-held control unit call button		

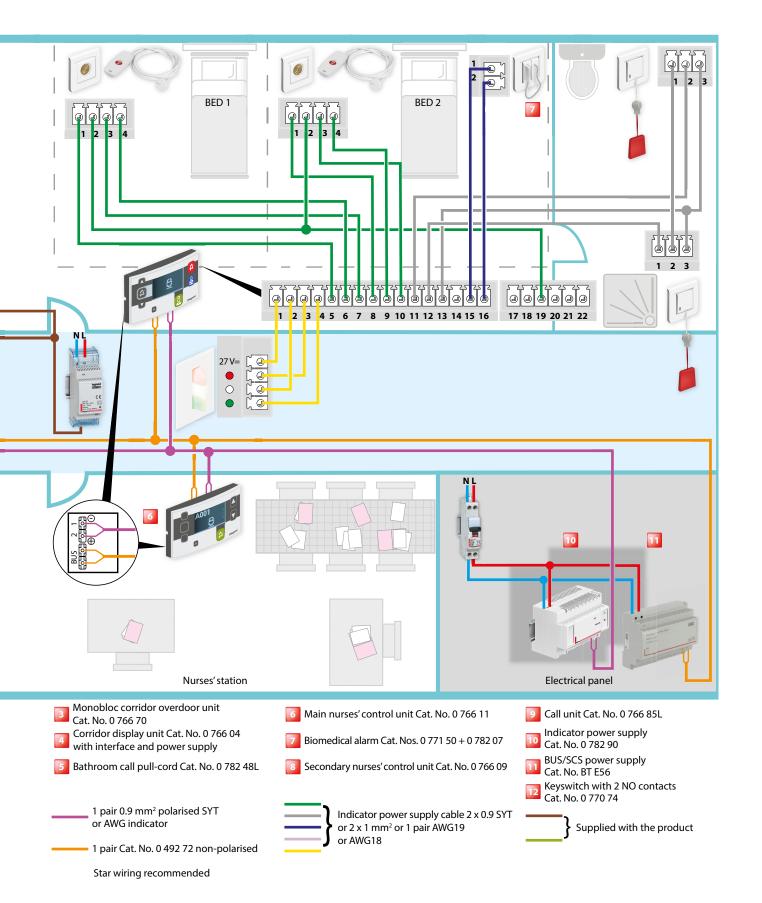
If monitor lights or overdoor light units are not being used, replace them with 100 k Ω /0.25 W resistors If the call contact is not being used, short-circuit the corresponding terminals



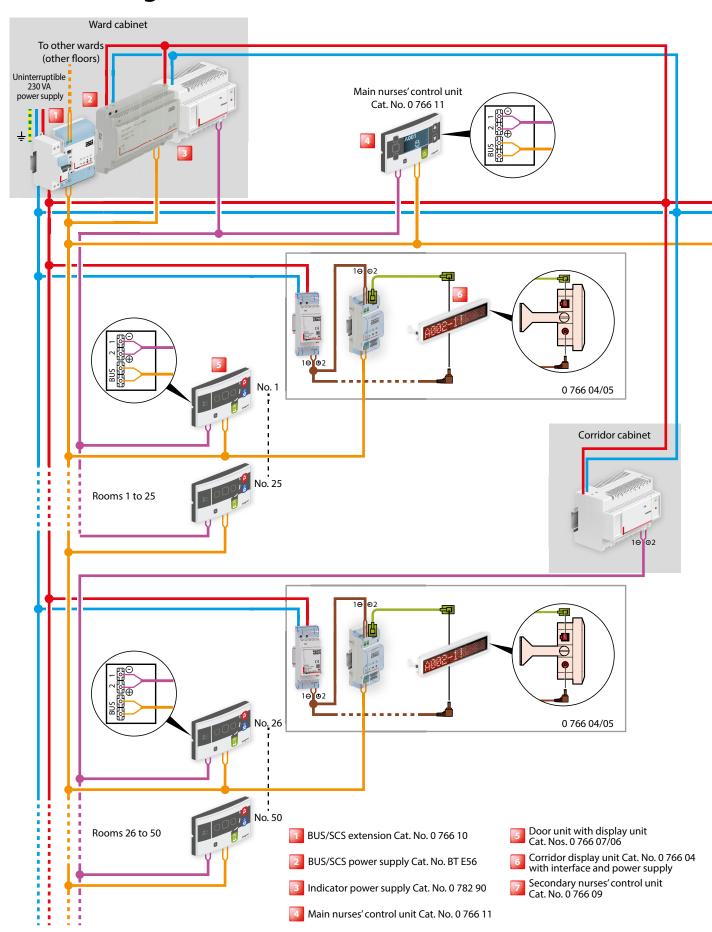




remote control unit to be removed

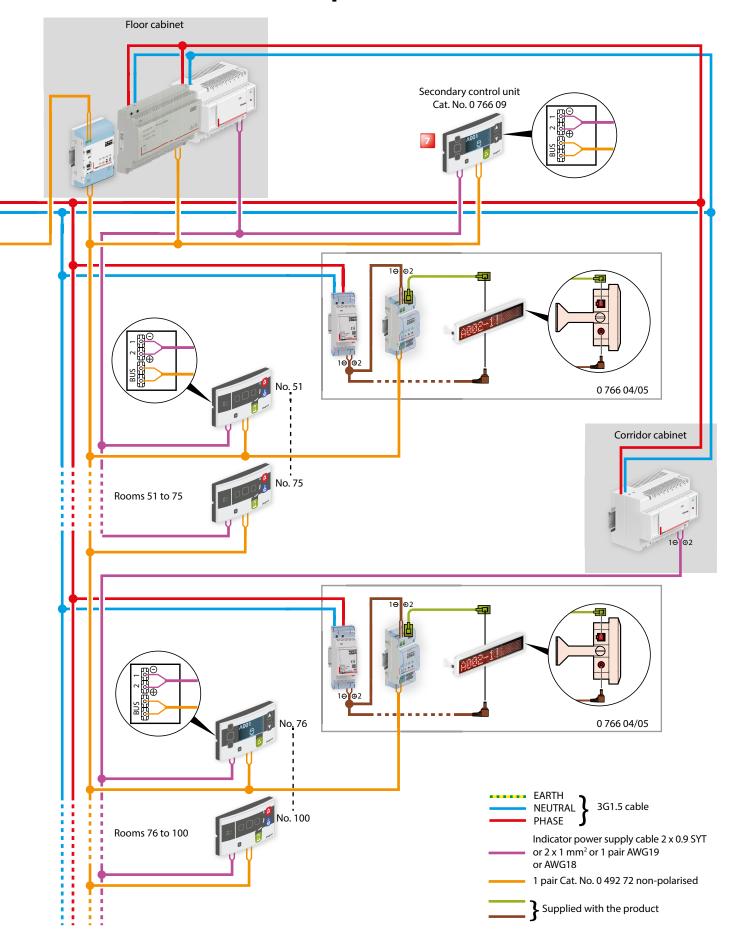


Wiring: 230 V cable and BUS cables (SCS + indicators)

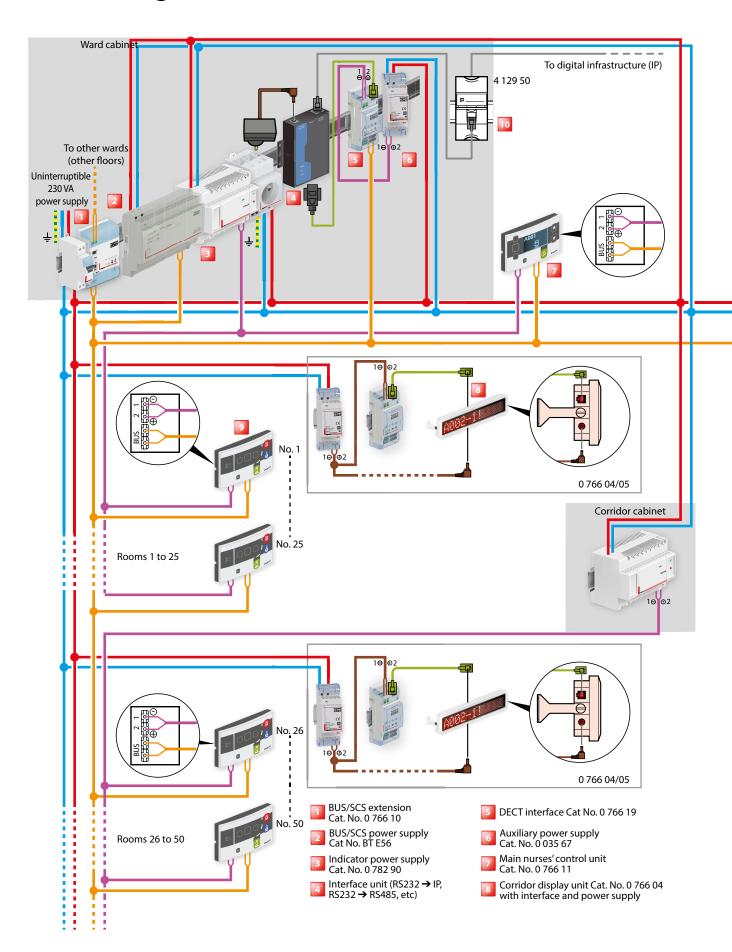




installed in corridors of up to 100 rooms

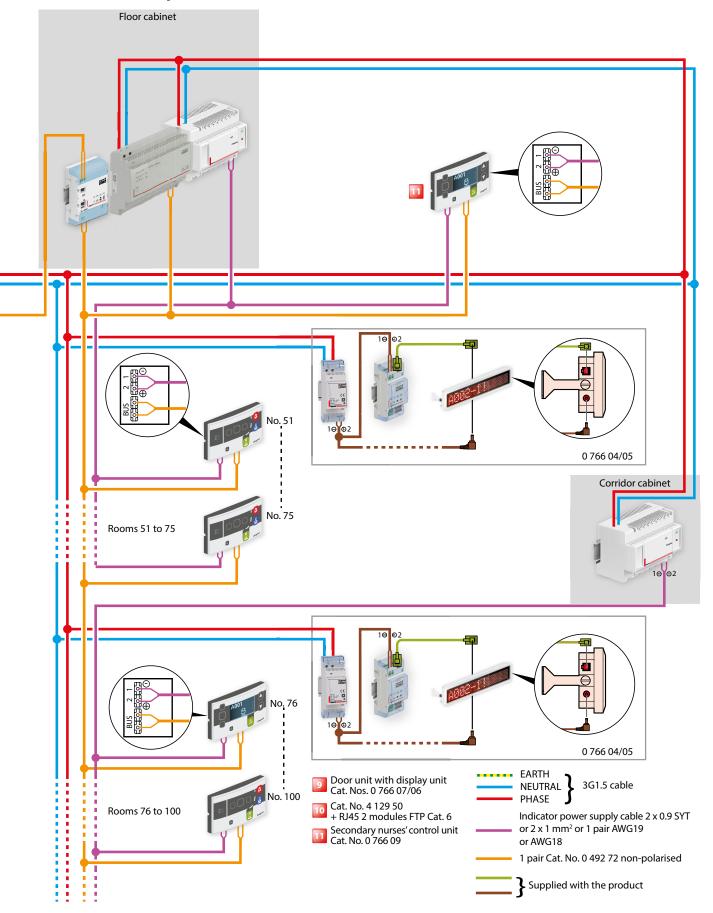


Wiring: 230 V cable and BUS cable (SCS + indicators)

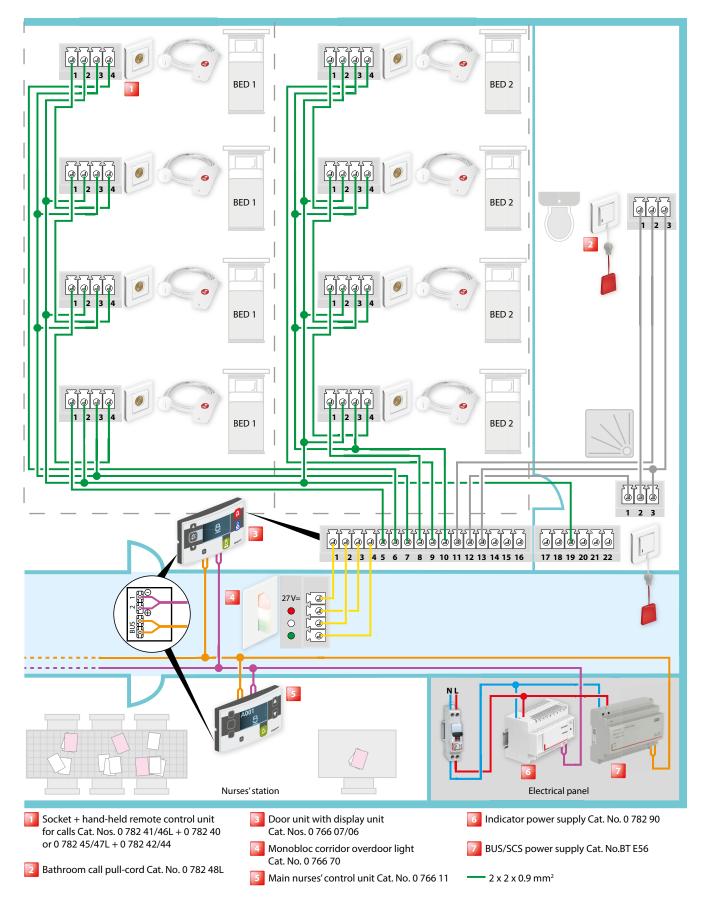




installed in corridors + DECT interface and RS232/IP interface

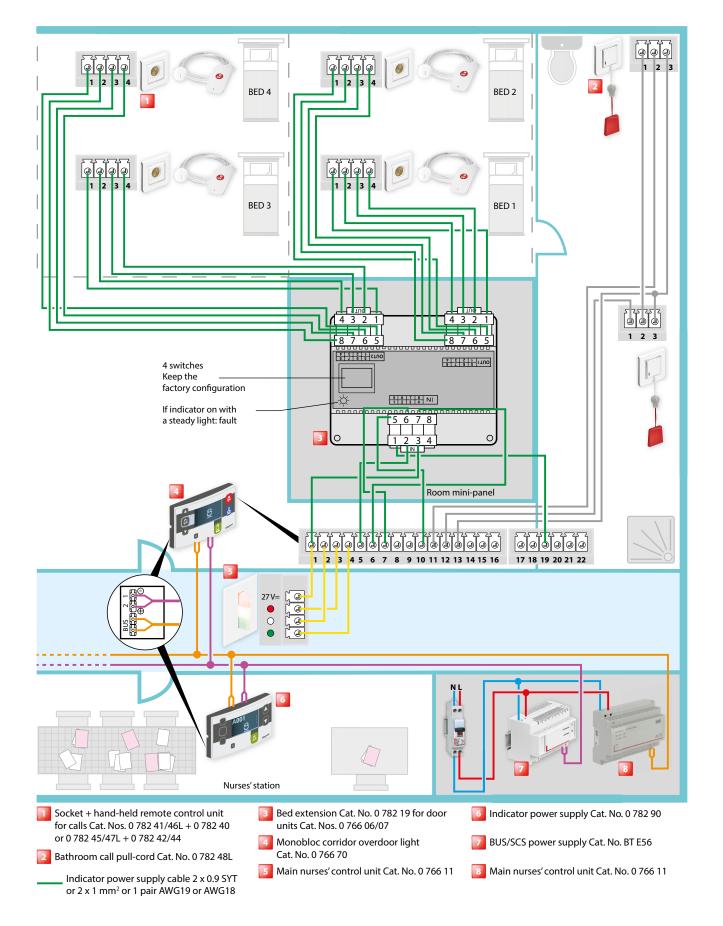


Wiring: rooms of up to 8 beds without bed identification

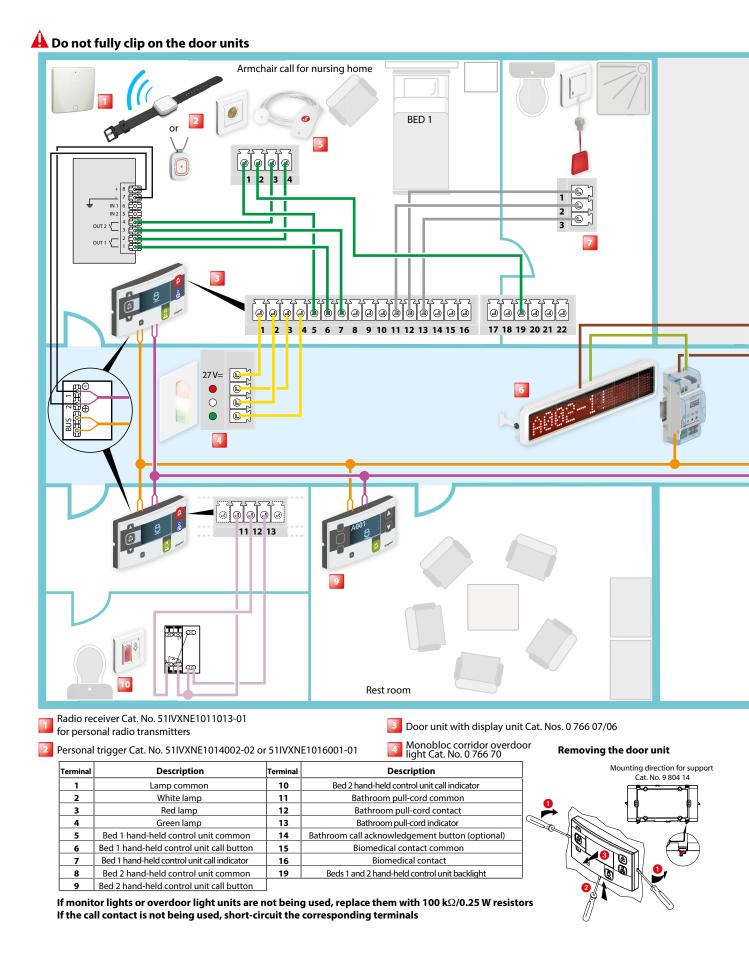




Wiring: rooms of up to 4 beds with bed identification

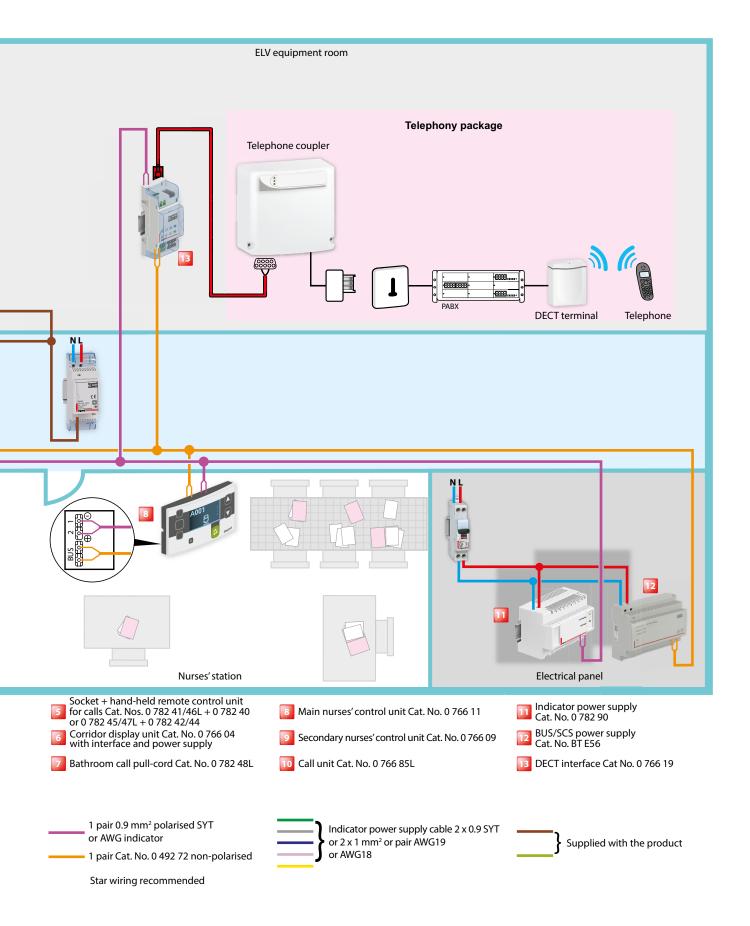


Wiring: Call + nurse presence installation with radio trans-



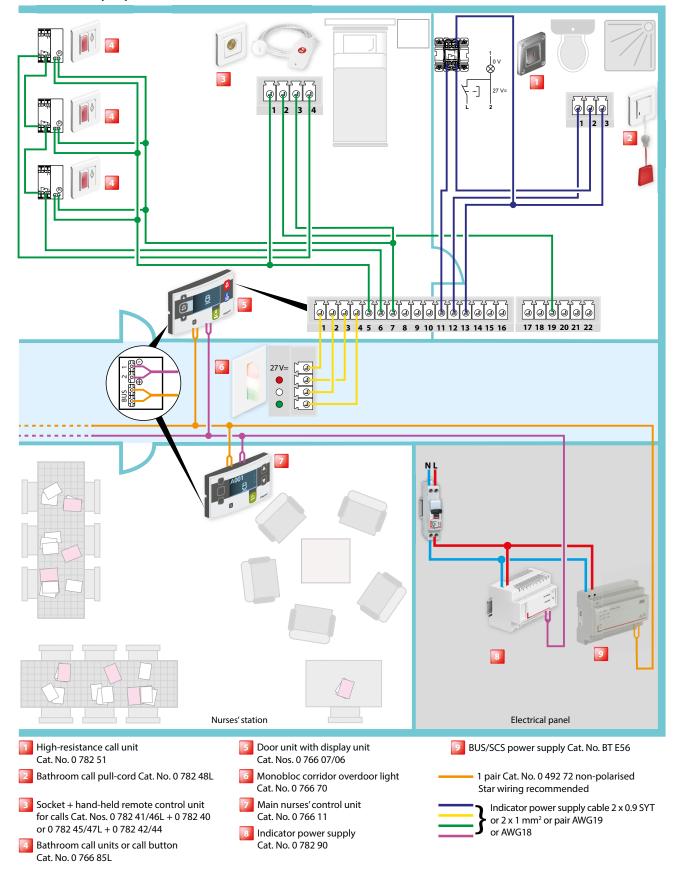


mitter and receiver



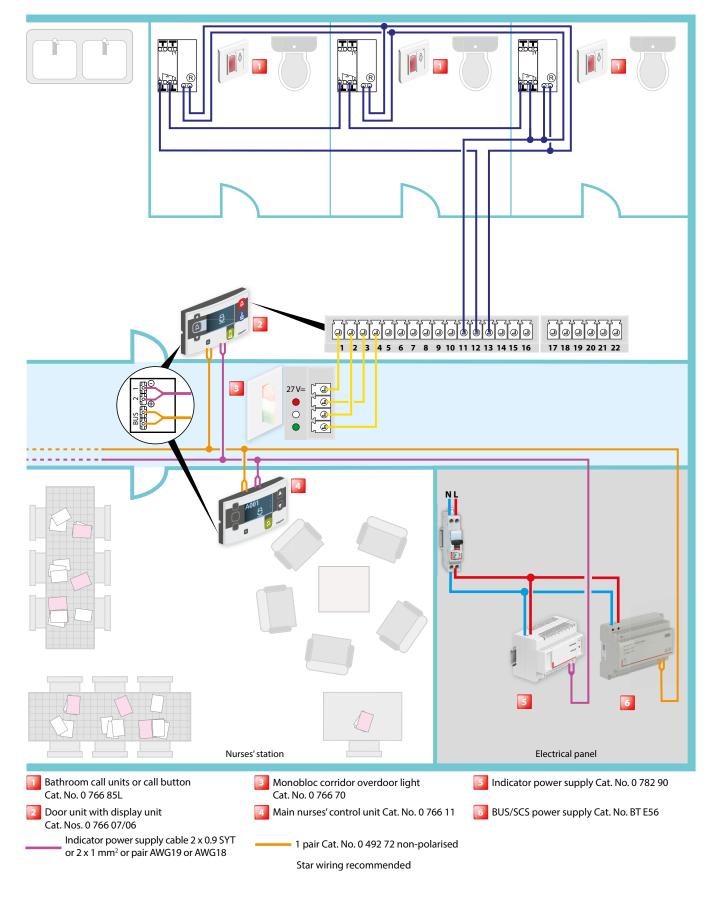
Wiring: multipoint bed call + bathroom call with high-resistance call button

A Do not fully clip on the door units





Wiring: toilets in public area



Wiring: replacing ELIOCAD call and nurse presence programme systems

OVERVIEW

There are several ways to replace an Eliocad system:

- 1. Complete rebuilding of a ward (extensive refurbishment)
 Isolate a ward and replace it (by changing all the devices and redoing the wiring) with the BUS/SCS nurse call system in order to benefit from new functions (see diagrams on previous pages).
- 2. Modernising the nurse call system with the ward closed (eco version/door unit 0 766 06/07 > 15W23) Isolate a ward and partially replace it (keeping the existing wiring) with the BUS/SCS nurse call system. In this case only the system devices (communicating devices) are replaced. This allows the change to be made at minimum cost while still benefiting from new functions (traceability, call-forwarding over DECT, automatic fault acknowledgement when replacing a hand-held remote control unit, cyclical switching on and off of the corridor overdoor light unit for fault indication, etc).
- 3. Modernising the nurse call system with the ward closed with door unit 0 766 06/07 in the room rather than the existing ELIOCAD door unit

Isolate a ward and partially replace it (keeping the existing wiring between the door unit and the interface) with the BUS/SCS nurse call system. In this case only the system devices (communicating devices) are replaced. This allows the change to be made by locating a new-generation door unit in the room while benefiting from new functions (door unit, traceability, call-forwarding over DECT, automatic fault acknowledgement when replacing a hand-held remote control unit, cyclical switching on and off of the corridor overdoor light for fault indication, etc). 3 cables must be pulled through (Legrand BUS, 1 indicator pair and 1 twisted multipair cable) between the interface and the new door unit, otherwise the system may not work properly.

4. Modernising the nurse call system with the site in use without changing the door unit (existing ELIOCAD) in the room (eco version)

Replace a ward with the site in use, without affecting patient rooms. New BUS cables must be pulled through the corridors and indicators installed, and new power supplies (BUS + indicator) installed so that the 2 systems work in parallel. Door units Cat. No. 0 766 06 + box Cat. No. 0 766 14 are installed on Eliocad call and nurse presence programmes one by one instead of the interfaces.

The new main nurses' control unit, new secondary control units, new corridor display units and other functions should be installed in parallel as required (call-forwarding over DECT, traceability, etc).

5. Modernising the nurse call system with the site in use with door unit 15W23 0 766 06/07 in the room rather than the existing ELIOCAD door unit.

Replace a ward with the site in use, and change the door unit in the room. New BUS cables must be pulled through the corridors and indicators installed, and new power supplies (BUS + indicator) installed so that the 2 systems work in parallel. Door units are installed on Eliocad call and nurse presence programmes rather than door units being placed in the rooms. The interface is replaced with a junction box

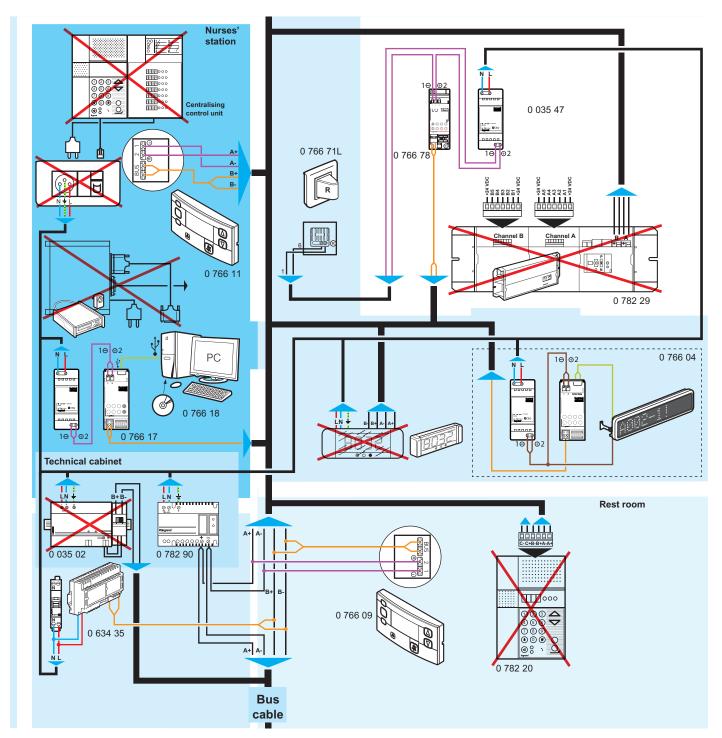
Cat. No. 0 920 22 and 3 cables must be pulled through (Legrand BUS, 1 indicator pair and 1 twisted multipair cable) between this junction box and the new door unit, otherwise the system may not work properly.

The new main nurses' control unit, new secondary control units, new corridor display units and other functions should be installed in parallel as required (call-forwarding over DECT, traceability, etc).

NOTE: - An indicator power supply 0 782 90 for 25 rooms is required (to be checked against the existing ELIOCAD)

- On Eliocad, unused inputs are shunted with a 24 V common (terminals 1 or 10 or 11). On the BUS/SCS system, unused inputs can be disabled during programming.
- During parameter setting, if the door unit declares itself to be in automatic mode, check that the external acknowledgement push-button is not open or that door unit switches 1 and 2 are not set to OFF (see technical data sheet).

Wiring: replacing ELIOCAD additional devices with BUS/SCS nurse call system devices



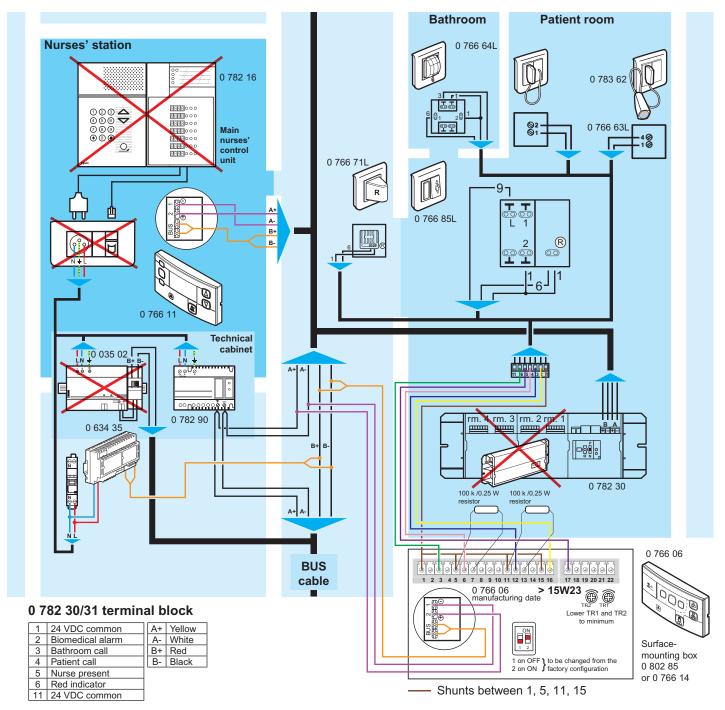
0 782 29 terminal block

1	24 VDC common	A+	Yellow
4	Patient call	A-	White
5	Nurse present	B+	Red
6	Red indicator	B-	Black
7	Yellow indicator		
8	Green indicator		
9	2 nurses present		

To switch the ELIOCAD nurse call unit telephone coupling to the BUS/SCS nurse call unit, please contact customer service or your local representative.

 $\begin{array}{c} \textbf{Caution:} \ \ \text{Terminals 6 and 7 power: min. 1.2 Watts} \\ \text{max. 7 Watts} \\ \text{If there is no power, insert a 470 } \ \Omega/5 \ W \ \text{resistor} \\ \end{array}$

Wiring: replacing the ELIOCAD call programme with the BUS/SCS nurse call system



Interface terminal block	SCS door unit
0 782 30/31	0 766 06
1	$1 \rightarrow 5 \rightarrow 11 \rightarrow 15$
2	16
3	12
4	6
5	17
6	3
11	$15 \rightarrow 11 \rightarrow 5 \rightarrow 1$

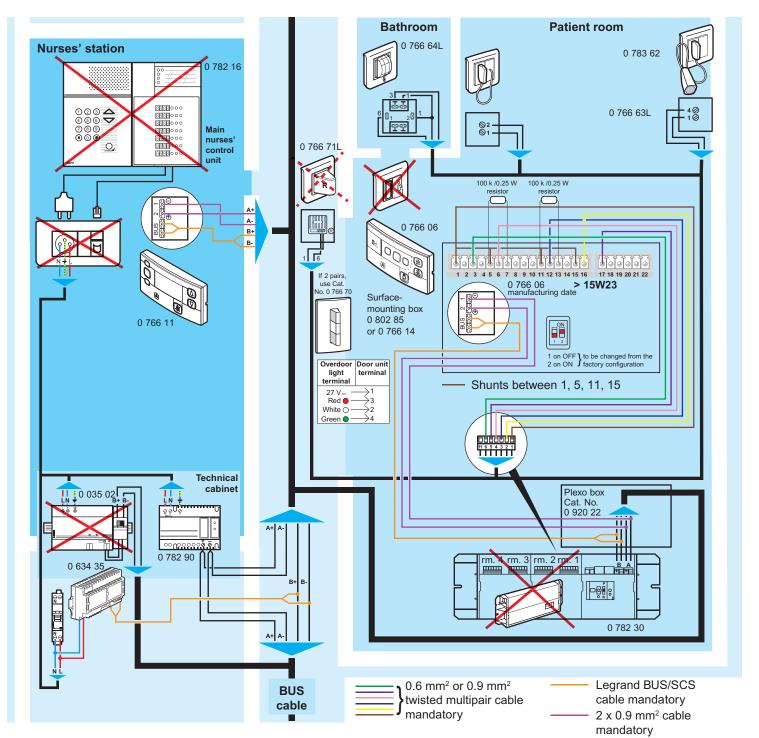
Recommendation: to connect the door unit, disconnect
and reconnect it one wire at time.

EIB BUS	Interface terminal	SCS door unit
cable (green)	block 0 782 30/31	0 766 06/11/09
Red	B+ Red	BUS inon-
Black	B- Black	BUS f polarised
Yellow	A+ Yellow	2
White	A- White	1

¹ interface 0 782 30 = 4 door units 0 766 06

¹ interface 0 782 31 = 2 door units 0 766 06

Wiring: diagram with door unit located in the room (as opposed to the technical cabinet or ceiling)



0 782 30/31 terminal block

1	24 VDC common	
2	Biomedical alarm	
3	Bathroom call	
4	Patient call	
5	Nurse present	
6	Red indicator	
11	24 VDC common	
A+	Yellow	
A-	White	
B+	Red	

Interface terminal	SCS door unit
block 0 782 30/31	0 766 06
1	$1 \rightarrow 5 \rightarrow 11 \rightarrow 15$
2	16
3	12
4	6
5	17
6	3
11	$15 \rightarrow 11 \rightarrow 5 \rightarrow 1$

EIB BUS	Interface	SCS door unit
cable	terminal block	0 766 06/11/09
(green)	0 782 30/31	0 700 00/11/09
Red	B+ Red	BUS1 non-
Black	B- Black	BUS polarised
Yellow	A+ Yellow	2
White	A- White	1

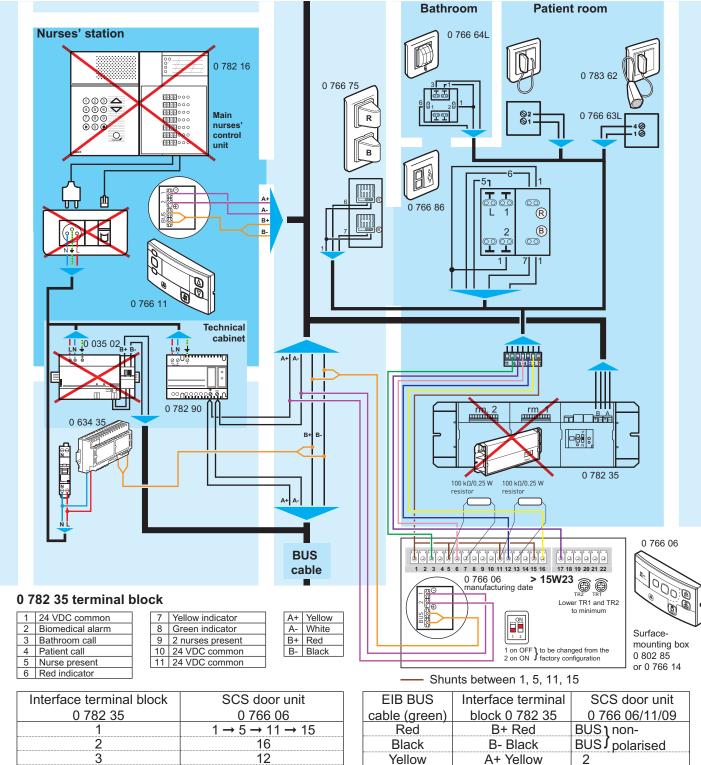
¹ interface 0 782 30 = 4 door units 0 766 06

Recommendation: to connect the door unit, disconnect and reconnect it one wire at time.

B- Black

¹ interface 0 782 31 = 2 door units 0 766 06

Wiring: replacing the ELIOCAD nurse presence programme with the BUS/SCS nurse call system



Interface terminal block	SCS door unit
0 782 35	0 766 06
1	$1 \rightarrow 5 \rightarrow 11 \rightarrow 15$
2	16
3	12
4	6
5	17
6	3
7	4
8	NO
9	NO
10	$15 \rightarrow 11 \rightarrow 5 \rightarrow 1$
11	$15 \rightarrow 11 \rightarrow 5 \rightarrow 1$

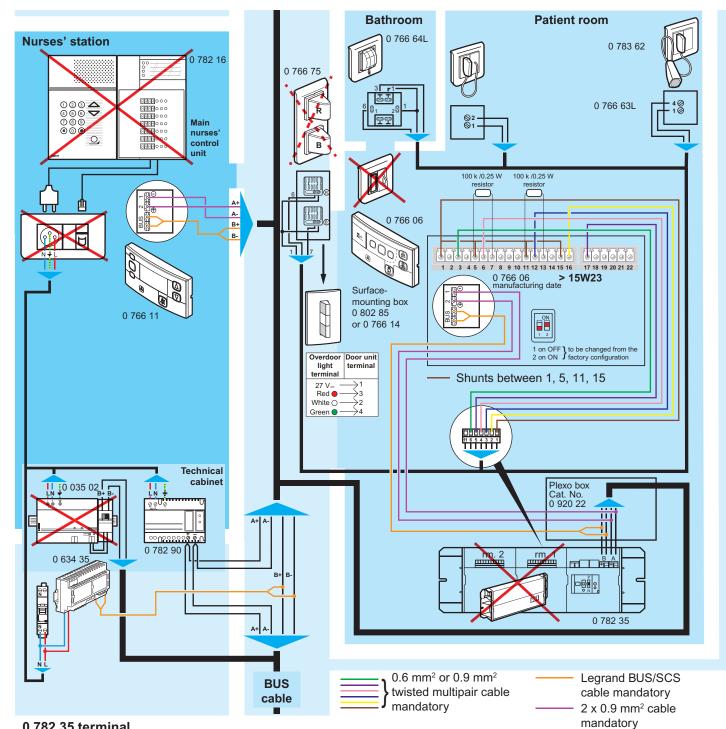
A- White

1

Recommendation: to connect the door unit, disconnect and reconnect it one wire at at time.

White

Wiring: diagram with door unit located in the room (as opposed to the technical cabinet or ceiling)



0 782 35 terminal block

1	24 VDC common
2	Biomedical alarm
3	Bathroom call
4	Patient call
5	Nurse present
6	Red indicator
7	Yellow indicator
8	Green indicator
9	2 nurses present
10	24 VDC common
11	24 VDC common
A+	Yellow

11	24 100	
A+	Yellow	
A-	White	
B+	Red	
B-	Black	
CONTENTS		

Interface terminal	SCS door unit
block 0 782 35	0 766 06
1	$1 \rightarrow 5 \rightarrow 11 \rightarrow 15$
2	16
3	12
4	6
5	17
6	3
7	4
8	NO
9	NO
10	$15 \rightarrow 11 \rightarrow 5 \rightarrow 1$
11	$15 \rightarrow 11 \rightarrow 5 \rightarrow 1$

EIB BUS	Interface	SCS door unit
cable	terminal block	0 766 06/11/09
(green)	0 782 35	0 700 00/11/09
Red	B+ Red	BUS non-
Black	B- Black	BUS I polarised
Yellow	A+ Yellow	2
White	A- White	1

1 interface 0 782 35 = 2 door units 0 766 06 Recommendation: to connect the door unit, disconnect and reconnect it one wire at time.

Parameter setting

DEVICE CONFIGURATION

10 areas (wards) can be managed in a physical configuration.

- For any installation with fewer than 80 directions (rooms) per ward, physical configuration is possible (using configurators).
- Virtual configuration is mandatory when there are more than 80 directions per ward.

20 additional addresses are reserved for:

- secondary control unit
- corridor display unit (maximum 5)
- traceability
- call-forwarding over DECT
- door controller for secure wandering
- BUS extension

PHYSICAL DEVICE CONFIGURATION

A Physical configuration (using configurators) and virtual configuration (software programming) are not compatible.

Physical configuration is achieved by inserting the configurators, distinguished by either a number or graphic, into the correct location in each device.

This mode should be used for installations with no more than 100 devices in each area (80 directions (rooms) + 20 additional addresses).



Cat. Nos. 0 492 00/01/02/03/04/05/06/07/ 08/09 or Cat. Nos. 3501/0/1/2/3/4/5/6/7/8/9



Cat. No. 0 261 45 or 3501K

Case comprising:

- 10 .0. configurators (Cat. No. 0 492 00 or 3501/0)
- 10 .1. configurators (Cat. No. 1 492 01 or 3501/1)
- 10 .2. configurators (Cat. No. 2 492 02 or 3501/2)
- 10 .3. configurators (Cat. No. 3 492 03 or 3501/3)
- 10 .4. configurators (Cat. No. 4 492 04 or 3501/4)
- 10 .5. configurators (Cat. No. 5 492 05 or 3501/5)
- 10 .6. configurators (Cat. No. 6 492 06 or 3501/6)
- 10 .7. configurators (Cat. No. 7 492 07 or 3501/7)
- 10 .8. configurators (Cat. No. 8 492 08 or 3501/8)
- 10 .9. configurators (Cat. No. 9 492 09 or 3501/9)

Example of equipment needed according to the number of rooms

Cat. Nos.	Number of boxes to equip 50 rooms	Ratio of boxes/number of rooms
0 261 45 or 3501K	1	1/50
0 492 01 or 3501/1	10	1/5
0 492 02 or 3501/2	10	1/5
0 492 03 or 3501/3	5	1/10
0 492 04 or 3501/4	5	1/10
0 492 05 or 3501/5	5	1/10
0 492 06 or 3501/6	5	1/10
0 492 20 or 3501/T	1	1/50

Configuration of the main nurses' control unit Cat. No. 0 766 11

A: indicates the area to which the device belongs (0 to 9)

N1: not in use N2: not in use

M1: 1 for the first control unit

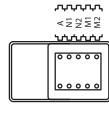
M2: not in use

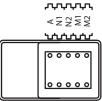
Configuration of the secondary control unit Cat. No. 0 766 09

A: indicates the area to which the device belongs (0 to 9) N1: indicates the secondary control unit number (0 to 9) N2: indicates the secondary control unit number (0 to 9)

M1: 2

M2: not in use





PHYSICAL DEVICE CONFIGURATION (CONTINUED)

Configuration of door unit with indicators Cat. No. 0 766 06

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the room number (0 to 9)

N2: indicates the room number (0 to 9)

M1: terminal operating mode (see table)

M2: bathroom acknowledgement mode (see table):

- -1 = door unit
- 2 =additional push-button in the bathrooms
- $\emptyset = no configurator$

Configuration of the door unit with display unit Cat. No. 0 766 07

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the room number (0 to 9)

N2: indicates the room number (0 to 9)

M1: terminal operating mode (see table)

M2: bathroom acknowledgement mode (see table):

- 1 = door unit
- 2 =additional push-button in the bathrooms

М1 Hand Hand Bath **Biomedical** Wan-M2 config. dering RC RC contact config. room Bed 1 Bed 2 Ø 1 X X X X 2 1 X 1 X X 1/2 1 X 1 X 1/2 4 1 X X X Ø 5 1 1 1 X X 1/2 6 1 X 1/2 7 X X 1/2 X 1 X

8

X

بببببب

AZZZZ

00000

00000

Door

no.

(0 to 9)



X

X

Configuration of the display unit interface Cat No. 0 766 04

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

N2: indicates the device address (0 to 9)

M1: audible signalling mode:

- 1 = buzzer enabled
- 2 = buzzer disabled

Configuration of the DECT interface Cat No. 0 766 19

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

N2: indicates the device address (0 to 9)

M1: type of message sent over the ESPA 4.4.4. (see table)



M1 config.	Error message	Alarm	Emergency	Call
1	~	X	X	X
2	~	~	X	X
3	~	~	~	X
4	V	V	V	V

Configuration of the BUS/SCS extension Cat. No. 0 766 10

• Physical extension. mode - repeater version

This mode should be used whenever it is necessary to extend the physical limit of the maximum length of the bus, but not the limit on the number of addresses in the area.

In this mode, configurator Cat. No. 0 492 20/3501/T

is inserted in A, N1, N2 and M1 are not used (empty).

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· Logical extension. mode - in gateway version

This mode is used to create a riser in order to connect the various wards to it.

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

M1: not in use

N2: indicates the device address (0 to 9) 0000 0000 ببببب

Configuration of the traceability interface Cat No. 0 766 17

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9) N2: indicates the device address (0 to 9)

M1: operating mode when the interface memory is full:

- 1: older records are overwritten by new ones
- 2: new records are suspended until old records have been saved and deleted from the interface

M2: not in use

Configuration of the information feedback interface Cat No. 0 766 78

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9) N2: indicates the device address (0 to 9)

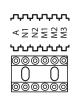
M1: operating mode:

- 1: buzzer mode
- 2: indicator mode

M2: buzzer operating mode (see table) (sounds intermittently. See interface data sheet in Device presentation and installation section)

M3: not in use

A M1 and M2 must have a configurator that is not 0



M2 config.	Patient call	Bathroom call	Emergency call	High-level emergency
1	V	~	X	X
2	X	X	V	X
3	V	V	~	Х
4	Х	X	X	V
5	V	V	X	V
6	Х	Х	~	V
7	V	~	~	V

PHYSICAL DEVICE CONFIGURATION (CONTINUED)

Example:

Installation for an area comprising:

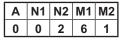
- 10 rooms with door unit for 2 beds, biomedical alarm and lavatory
- 1 main nurses' control unit for the monitoring station, 1 secondary control unit
- 1 corridor display unit with audible signalling, 1 traceability interface, 1 DECT interface and 1 feedback interface (indicator configuration)

Door units Cat. Nos. 0 766 06/07



N1 N2 M1 M2

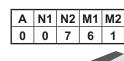








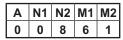




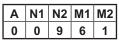














Interface for corridor display unit Cat. No. 0 766 04

Α	N1	N2	M1
n	a	Q	1



A N1 N2 M1 M2 0 1 0 6 1



Traceability interface Cat. No. 0 766 17

Α	N1	N2	M1
0	9	7	1



Main nurses' control unit Cat. No. 0 766 11

Α	N1	N2	M1	M2
0	0	0	1	1



DECT interface Cat No. 0 766 19

Α	N1	N2	M1
0	9	6	4



Secondary control unit Cat. No. 0 766 09

Α	N1	N2	M1	M2
0	9	9	2	1



Feedback interface Cat. No. 0 766 78 (indicator configuration)

Α	N1	N2	M1	M2	М3
0	a	5	2	7	n



PHYSICAL DEVICE CONFIGURATION (CONTINUED)

This section describes the essential concepts of 'physical' and 'virtual' device configuration.

To understand the addressing logic, the terms used in the text are defined below:

- Area (A): All devices belonging to the same nursing ward (max. 10 areas in physical configuration: A, B, C... J and max. 14 areas in virtual configuration: A, B, C... N).
- N1–N2: Numerical identifier for each room in the (nursing) ward.
- M1–M2: These configurators identify the device operating mode.

Healthcare building with 1 ward of 80 rooms on 1 floor in physical configuration

Ward A
Cat. No. 0 766 11
Room 1 → 80

Main nurses' control unit Cat. No. 0 766 11

Α	N1	N2	M1	M2
0	0	0	1	1



Display: 001 to 080 **not modifiable**

Door units Cat. Nos. 0 766 06/07

Α	N1	N2	М1	M2
0	0	1	2	1



Configuration for room no. 1 in ward A with 1 bed and 1 bathroom

Healthcare building with 3 floors in physical configuration

Ward C
Cat. No. 0 766 11

Room 1 → 80

Main nurses' control unit Cat. No. 0 766 11

Α	N1	N2	M1	M2
2	0	0	1	1

Floor 3



Display: 001 to 080 **not modifiable**

Main nurses' control unit Cat. No. 0 766 11

Α	N1	N2	M1	M2
1	0	0	1	1

Floor 2

Ward B

Cat. No. 0 766 11

Room 1 → 80



Display: 001 to 080 **not modifiable**

Ward A
Cat. No. 0 766 11
Room 1 → 80

Floor 1

Main nurses' control unit Cat. No. 0 766 11

Α	N1	N2	M1	M2
0	0	0	1	1



Display: 001 to 080 **not modifiable**

Door units Cat. Nos. 0 766 06/07

Α	N1	N2	М1	M2
2	0	1	2	1



Configuration for room no. 1 in ward C with 1 bed and 1 bathroom

Door units Cat. Nos. 0 766 06/07

Α	N1	N2	M1	M2
1	0	1	2	1



Configuration for room no. 1 in ward B with 1 bed and 1 bathroom

Door units Cat. Nos. 0 766 06/07

Α	N1	N2	M1	M2
0	0	1	2	1



Configuration for room no. 1 in ward A with 1 bed and 1 bathroom

Locatable on floor 1, 2 or 3

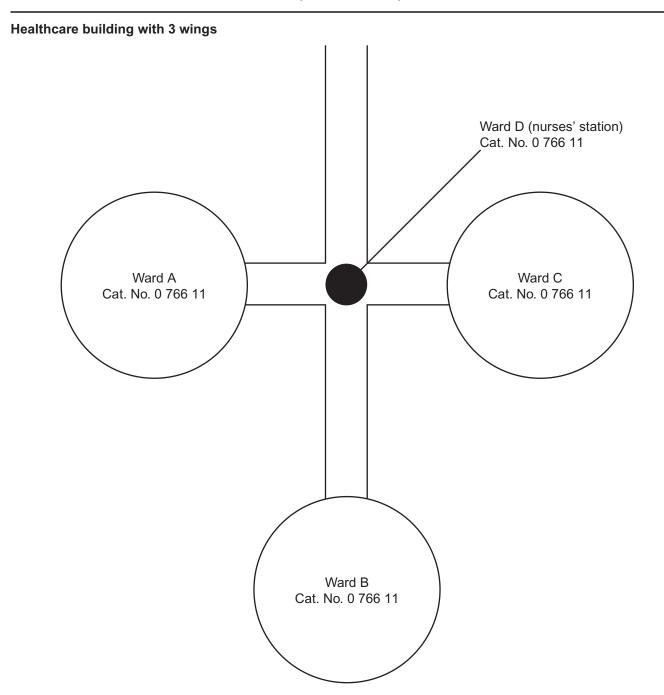
Main nurses' control unit Cat. No. 0 766 11 with feedback enabled (4 max.)

Α	N1	N2	M1	M2
3	0	0	1	1



Display: A001 to A080, B001 to B080, C001 to C080 not modifiable

PHYSICAL DEVICE CONFIGURATION (CONTINUED)



Main nurses' control unit Cat. No. 0 766 11

Α	N1	N2	M1	M2
2	0	0	1	1



Display: 001 to 080 **not modifiable**

Main nurses' control unit Cat. No. 0 766 11

Α	N1	N2	M1	M2
1	0	0	1	1



Display: 001 to 080 **not modifiable**

Main nurses' control unit Cat. No. 0 766 11

Α	N1	N2	M1	M2
0	0	0	1	1



Display: 001 to 080 **not modifiable**

Door units Cat. Nos. 0 766 06/07

Α	N1	N2	M1	M2
2	0	1	2	1



Configuration for room no. 1 in ward C with 1 bed and 1 bathroom

Door units Cat. Nos. 0 766 06/07

ı		_		_	
	Α	N1	N2	M1	M2
	1	0	1	2	1



Configuration for room no. 1 in ward B with 1 bed and 1 bathroom

Door units Cat. Nos. 0 766 06/07

Α	N1	N2	M1	M2
0	0	1	2	1



Configuration for room no. 1 in ward A with 1 bed and 1 bathroom

Main nurses' control unit Cat. No. 0 766 11 with feedback enabled (4 max.)

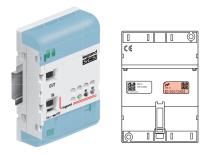
Α	N1	N2	M1	M2
3	0	0	1	1

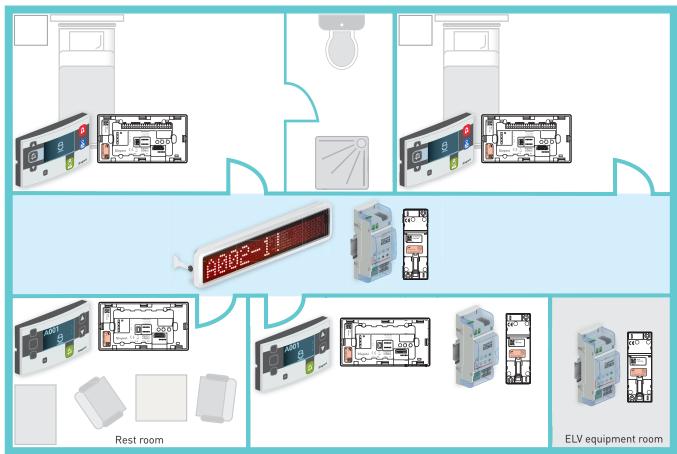


Display: A001 to A080, B001 to B080, C001 to C080 not modifiable

PREPARING THE PLAN FOR VIRTUAL CONFIGURATION (INSTALLER)

Stick ID labels of all the BUS products (surface-mounting, flush-mounting, ceiling-mounting and modular wiring accessories) on a plan, taking care to place products in the correct physical position.

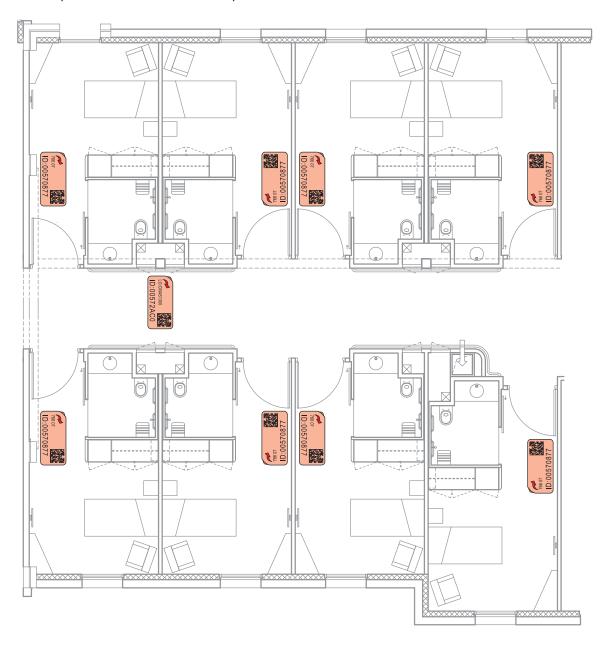






PREPARING THE PLAN FOR VIRTUAL CONFIGURATION (INSTALLER)

For personal radio transmitters (Cat. Nos. 21PDER904, 21PMOR902 and 21PDER911), we suggest you create an equivalence table between the product ID and the room to which it is attached.



VIRTUAL DEVICE CONFIGURATION

A Physical configuration (using configurators) and virtual configuration (software programming) are not compatible.

When a product has been configured using configurators, to configure it virtually (software programming):

Remove the configurators

2 Switch off the BUS and indicator power supplies for 30 sec. minimum

Principle

Install the Nurse Call Configurator software Cat. No. 0 766 15 on the PC where the parameters

The hospital system virtual configuration can be used to:

- Extend the number of rooms per ward to 150 rather than 80 for the physical configuration.
- Have 4-digit room numbering including the ward name in numbers or letters.
- Have a backup of the project.

Setup

Virtual configuration of the hospital system is done on a PC.

The virtual configuration software Cat. No. 0 766 15 therefore needs to be installed on a PC.

There are 3 options for virtual configuration:

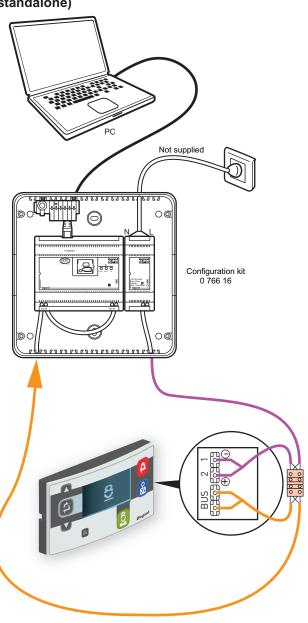
- The configuration kit will be used independently of the installation (standalone).
- The configuration kit will be connected to the installation.
- Web server Cat. No. F454 will be installed in a cabinet connected to the vertical BUS or floor BUS. While it is being used, the nurse call system is no longer operational.

The PC will be linked to the interface via a data link (IP). The configuration kit should have a static IP address (192.168.1.35 by default).

Product replacement

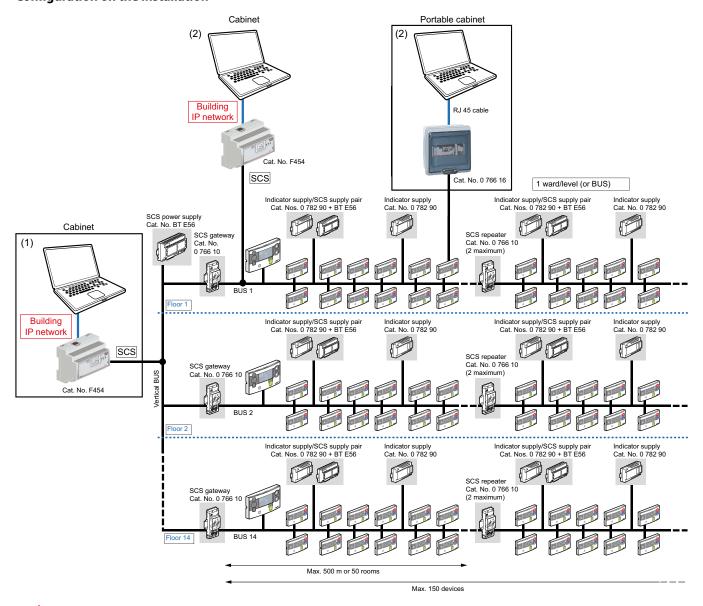
A faulty product should be replaced independently of the installation (see diagram opposite). Refer to section: procedure for replacing a product.

Configuration independently of the installation (standalone)





Configuration on the installation

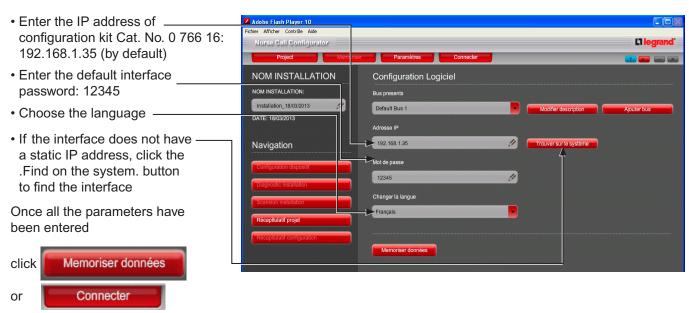


- (1) A Parameter setting prevents the whole building from working
- (2) \(\triangle \) Disconnect gateway Cat. No. 0 766 10 from the floor. After this, parameter setting only prevents the floor concerned from working

VIRTUAL DEVICE CONFIGURATION (CONTINUED)

Launching the Nurse Call Configurator

Change the PC to static IP address: 192.168.1.100 (recommended) Once the Nurse Call Configurator software has started:



in the taskbar.

The PC is connected to the interface.





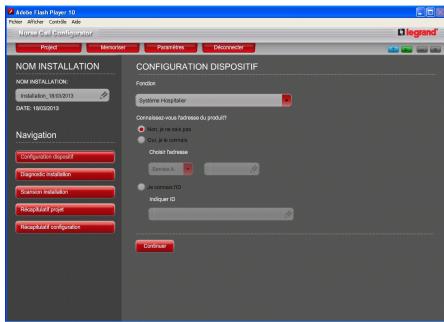
Device configuration



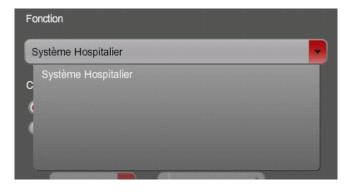
When a device has not been configured, the icon flashes quickly.

In .Virtual Configurator., select





From the dropdown .Function. menu, select .Hospital System..



VIRTUAL DEVICE CONFIGURATION (CONTINUED)

There are two possible solutions to find the device to be configured:

- Either the ID number on the back of the product
- Or pressing the green .Presence.
 button on the front of the device to be configured (recommended)

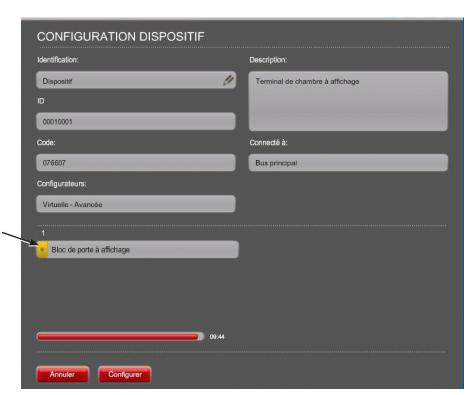


Connaissez-vous l'adresse du produit?

Non, je ne sais pas

Once the device has been found, the next page is displayed:

- Identification = device name given in the software
- ID = ID of the device being configured
- Code = device catalogue number
- Configurators: configuration type (physical/virtual)
- Device type with indication of configuration status (yellow = not configured, green = configuration OK, red = configuration not OK)



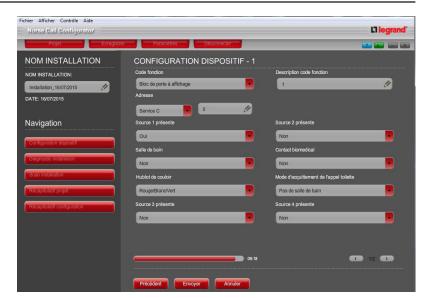
To access device configuration, click the button opposite leading a difficulty of the configuration of the configu



Door unit Cat. Nos. 0 766 06/07:

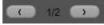
- Address = device address. No. of ward the room is in and 0: address of the room which will be displayed according to the main nurses' control unit parameters.
- Source 1 (bed 1) present: Yes/No
- Source 2 (bed 2) present: Yes/No
- Bathroom: Yes/No. Presence of a bathroom pull cord in the room.
- **Biomedical contact:** Yes/No. Presence of a biomedical contact in the room.
- Corridor overdoor light unit: Choice of colours in the corridor.
- Function code description: Used to identify the room (blank field).
- · Source 3 (bed 3) present: Yes/No
- Source 4 (bed 4) present: Yes/No

Sources 3 and 4 should only be used with bed extension 0 782 19

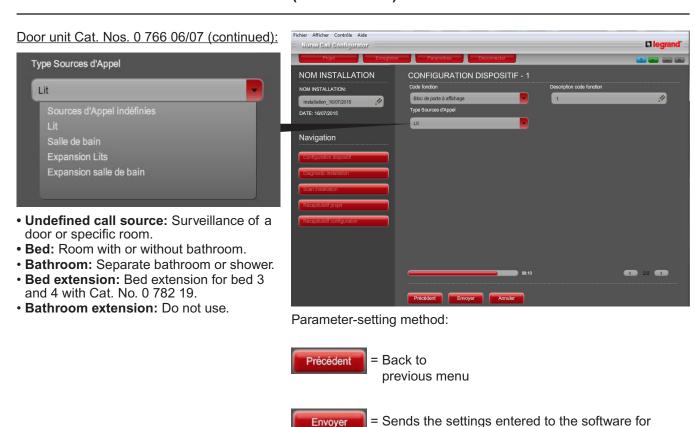


• Bathroom call hang-up mode: if a pull cord is present, the call can be hung up via a PB in the bathroom or on the door unit

Once you have filled in all the fields, go to the next page



VIRTUAL DEVICE CONFIGURATION (CONTINUED)



verification

= Factory reset for the device being configured

Annuler



The software analyses the settings



If the settings are OK, the device shows as green.



If the settings are not OK, a window opens with an error message

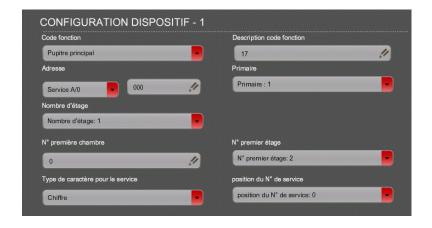
Click to finalise configuration and send the settings to the devices. Once the settings have been received, all the door unit indicators flash.

Note: In standalone mode, once the settings have been configured, the device triggers a call and buzzes

The various settings

Main nurses' control unit Cat. No. 0 766 11

- Address = device address. A: = Choice of ward (area) No.
 Main nurses' control unit address = 000.
- Number of floors: Number of floors
- No. of first room = offset (difference between the device address and room no. displayed) from the room no. No. which will be displayed for the room with the SCS address = 1. The other room
- numbers will follow on.
 No. of first floor = offset from the first floor number. No. which will be displayed for the first floor in the ward.
- Character type for the ward: Letter/
 Digit = ward number display mode.
- Ward no. position: It should be possible to shift the number 1, 2 or 3 positions from the left (its initial position).
- Function code description: Used to identify the room (blank field).



VIRTUAL DEVICE CONFIGURATION (CONTINUED)

Examples of room numbering depending on the parameter setting of nurses' control unit Cat. No. 0 766 11.

The SCS address range is from no. 1 to no. 169.

1. Setting the nurses' control unit parameters for one ward per floor (the ward only has one floor):

Ward 0 located on the ground floor: Room numbers from 0020 to 0189		
Parameter	Value	
Address	A/000	
Number of floors	1	
First room no.	19	
First floor no.	0	
Character type for the ward	Digit	
Ward no. position	0	

Ward 1 on the 1st floor: Room numbers from 1001 to 1170		
Parameter Value		
Address	B/000	
Number of floors	1	
First room no.	0	
First floor no.	0	
Character type for the ward	Digit	
Ward no. position	0	

2. Setting the nurses' control unit parameters for several wards on the same floor:

Ward 0 on the 2nd floor: Room numbers from 2020 to 2098			
Parameter	Value		
Address	A/000		
Number of floors	1		
First room no.	19		
First floor no.	2		
Character type for the ward	Digit		
Ward no. position	1		

Ward 1 on the 2nd floor: Room numbers from 2101 to 2199		
Parameter	Value	
Address	B/000	
Number of floors	1	
First room no.	00	
First floor no.	2	
Character type for the ward	Digit	
Ward no. position	1	

3. Setting the nurses' control unit parameters for one ward extending over several floors:

Ward 2 with 3 levels: Room numbers from 2301 to 2399/2400 to 2499/2530 to 2599		
Parameter	Value	
Address	C/000	
Number of floors	1	
First room no.	00	
First floor no.	3	
Character type for the ward	Digit	
Ward no. position	0	

Ward 2 with 3 levels: Room numbers from 3320 to 3399/4320 to 4399/5320 to 5399		
Parameter Value		
Address	C/000	
Number of floors	1	
First room no.	19	
First floor no.	3	
Character type for the ward	Digit	
Ward no. position	1	



Anti-wandering system: Cat. No. 0 766 22 connected on door unit Cat. No. 0 766 06

- Address: Device address.
 No. of ward to which the door being monitored belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- Access number: Number of door displayed
- Function code description: Used to identify the room (blank field).



VIRTUAL DEVICE CONFIGURATION (CONTINUED)

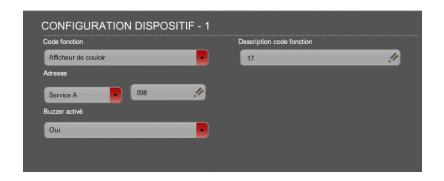
Corridor display unit: Cat. Nos. 0 766 04/0 766 05

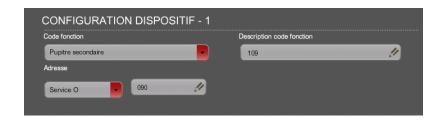
In independent configuration of the installation (standalone), the device must be connected to the BUS and to power supply terminals 1 and 2.

- Address: Device address.
 No. of ward to which the corridor display unit belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- Buzzer enabled: Yes/No. Used to make the display unit buzzer sound when a call is made.
- Function code description: used to identify the room (blank field).

Secondary control unit: Cat. No. 0 766 09

- Address: Device address.
 No. of ward to which the secondary control unit belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- Function code description: Used to identify the room (blank field).





Traceability interface: Cat. No. 0 766 17 In independent configuration of the installation (standalone), the device must be connected to the BUS and to power supply terminals 1 and 2.

- Address: Device address. No. of ward to which the traceability interface belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- Full memory management mode: either overwrite the oldest events/or stop recording.
- Function code description: Used to identify the room (blank field).

SCS BUS/SCS interface: Cat. No. 0 766 10 (the device ID is obligatory for parameter setting).

To configure the interface, the device must be connected to the IN BUS and OUT BUS with 2 different BUS/SCS power supplies.

Repeater mode

Gateway mode

- Address: Device address. No. of ward to which the gateway belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- Function code description: Used to identify the room (blank field).







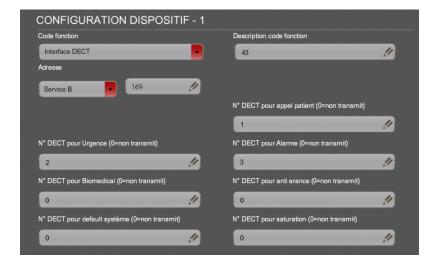
A For the configuration in "gateway" mode, you need to connect a different BUS/SCS power supply on each side of the gateway in order to be able to configure it.

VIRTUAL DEVICE CONFIGURATION (CONTINUED)

DECT interface Cat No. 0 766 19

In independent configuration of the installation (standalone), the device must be connected to the BUS and to power supply terminals 1 and 2.

- Address: Device address.
 No. of ward to which the DECT interface belongs and 0: device SCS address (adjacent device: start with 169 and go down).
- DECT no. xxxxx: Corresponds to the call number in the ESPA 4.4.4 frame linked to a type of event.
- Function code description: Used to identify the room (blank field).



Information feedback interface Cat. No. 0 766 78

In independent configuration of the installation (standalone), the device must be connected to the BUS.

- Address: Device address.
 No. of ward to which the information feedback belongs and 0: device SCS address.
- Relay management mode: External buzzer (audible feedback)/Generic load (indicator feedback).
- Simple call management: Yes/No.
- Emergency call management: Yes/No.
- Alarm call management: Yes/No.
- Associated device: Yes/No.
 No: Call feedback from the whole ward in order of importance.

Yes: Call feedback from a single door unit in the ward.

 Associated device address: Address of door unit to be associated.



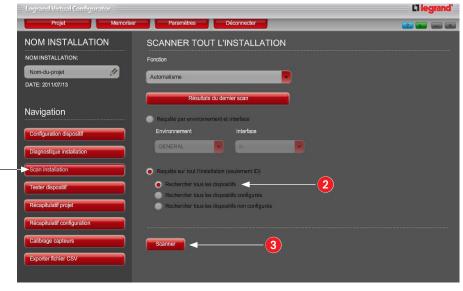
Project backup

During building maintenance, all the device configurations need to be backed up (in case the parameters are reset or the devices are replaced).

- Procedure: Run a full scan of the installation
- Go to Scan installation –
- 2 Select Request for the whole installation/Search all devices
- 3 Launch the scan

A message appears to warn that the nurse call system will not work during parameter setting.

4 Check that the total number of scanned devices corresponds to the number of devices installed on the BUS (eg: x/4 hence 4 BUS devices in the installation).







VIRTUAL DEVICE CONFIGURATION (CONTINUED)

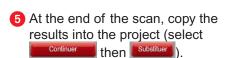
The scan result is displayed.

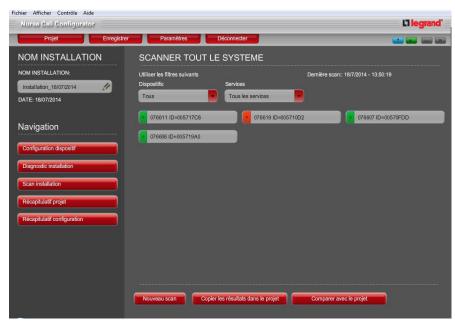
Each device appears by its catalogue number and ID number.

A

At this stage, do not save the project.

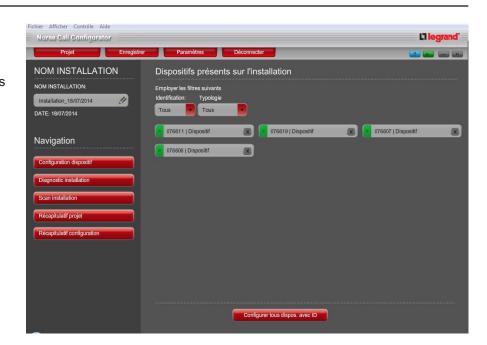
If you save it, the file will be empty.







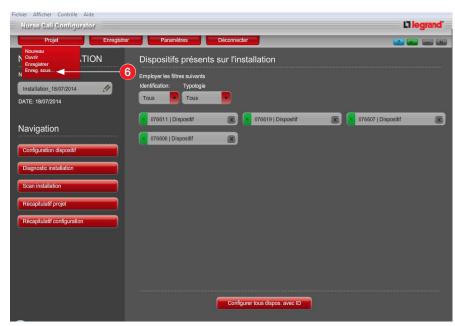
Once copying is complete, the ID numbers no longer appear. To make them appear, place the mouse arrow on a device (a label is displayed).



6 Save by going to Project/ Save As...

This save operation allows you to find the device configuration in the installation.

NOTE: Legrand recommends that you restart the program and open the backup file to check that it has saved properly.



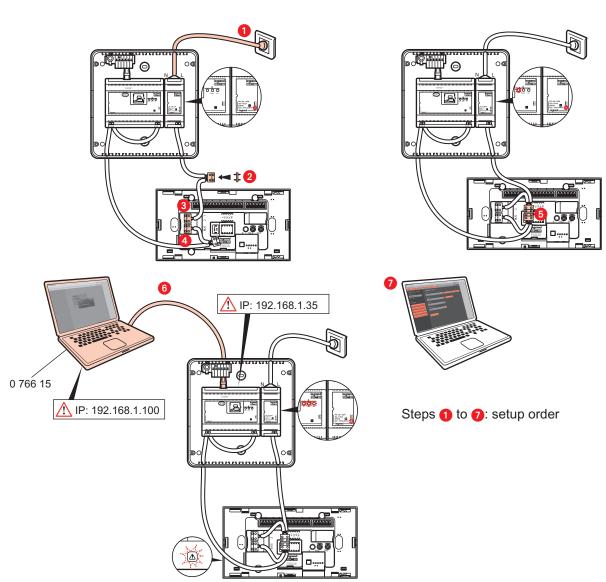
Procedure for replacing a faulty BUS/SCS product in virtual configuration

PROCEDURE INDEPENDENT OF THE INSTALLATION (STANDALONE)

NB: A device must be replaced by a device with the same catalogue number.

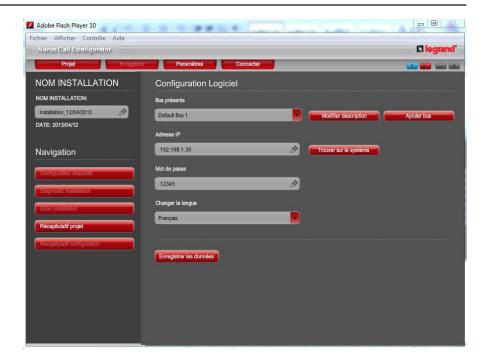
The new device must have a production date after 12W26

- (1) Record the ID number of the faulty device in the ward
- 1) Record the ID number of the new device
- ③ Connect the PC to the new device using configuration kit Cat. No. 0 766 16





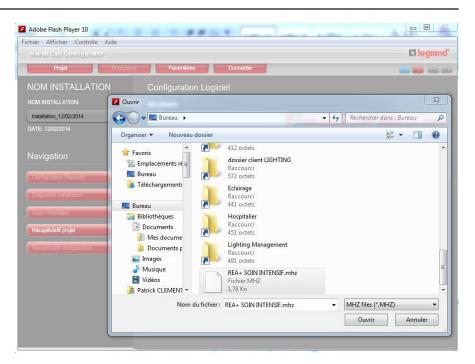
4 Launch the Nurse Call Configurator software Cat. No. 0 766 15



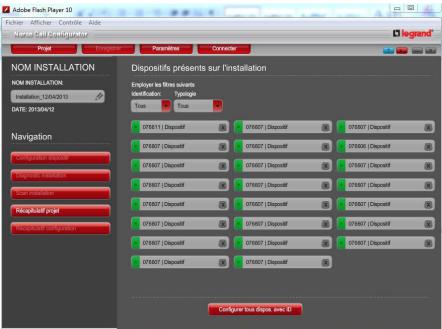
Procedure for replacing a faulty BUS/SCS device in virtual configuration (continued)

PROCEDURE INDEPENDENT OF THE INSTALLATION (STANDALONE) (CONTINUED)

(5) Click on the "Project" tab, then "Open" and open the installation backup file (.mhz file)

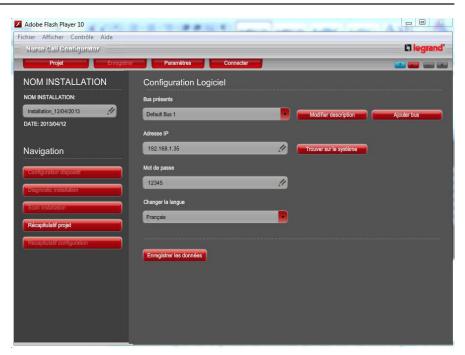


6 The file opens on the page with all the devices in the installation. Click on the "Settings" tab to access the configuration page for connection to the kit





(7) Enter the configuration kit IP address (192.168.1.35 by default and password 12345 by default) in order to connect the software to the system. Click on "Save data" to save changes then click on "Project summary"



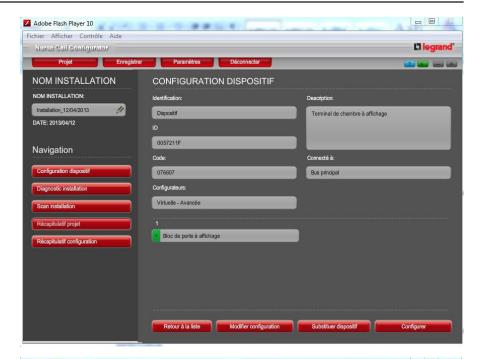
(8) Select the faulty device using its ID number (to display the ID numbers, hover the mouse cursor over each device)



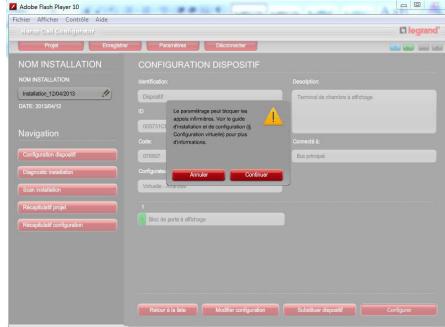
Procedure for replacing a faulty BUS/SCS device in virtual configuration (continued)

PROCEDURE INDEPENDENT OF THE INSTALLATION (STANDALONE) (CONTINUED)

(9) Click "Substitute device"

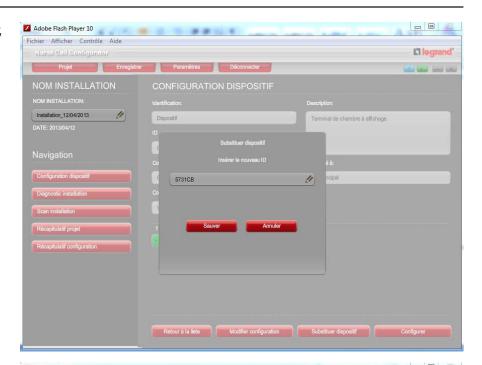


(10) Click "Continue"





(1) Enter the new device ID number, then save



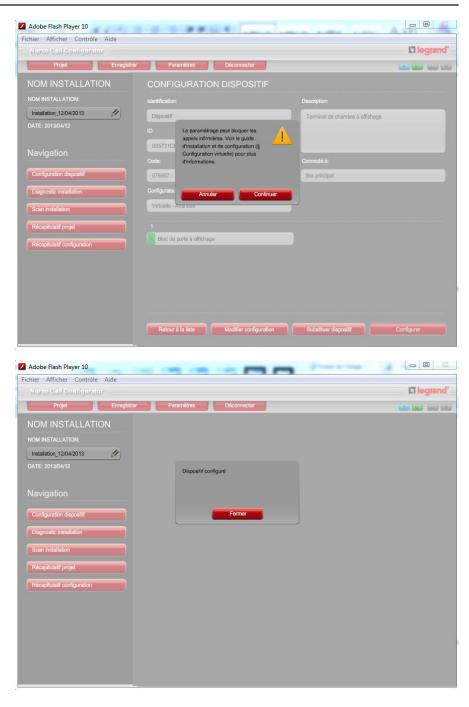
Check that the ID number has been updated, then click "Configure".



Procedure for replacing a faulty BUS/SCS device in virtual configuration (continued)

PROCEDURE INDEPENDENT OF THE INSTALLATION (STANDALONE) (CONTINUED)

A dialogue box opens. Click "Continue" then "Close"





(2) Click "Project" then "Save as" to save the file (.mhz file)



- (3) Send the device programmed for its installation on site then install it instead of the faulty one
- (14) Check that the installation works

Commissioning

POWER-UP



Do not fully clip on the units before commissioning is complete.

Recommendations (see p. 6)

- Only connect one door unit and disconnect the indicator and bus power supplies from the other rooms (door unit).
- 2 Set the circuit breaker for the bus and indicator power supplies to ON.
- 3 Check that the green power indicator is on.
- 4 Configure the door unit as physical configuration (using configurators) or virtual configuration (software programming).
- Test local operation of a room (hand-held remote control unit, call pull cord, corridor overdoor light unit and door unit).
- 6 Configure the nurses' control unit according to Cat. No. 0 766 11 (see virtual configuration of nurses' control unit Cat. No. 0 766 11 section) p. 132.
- Issue a room recognition confirmation from the nurses' control unit.

SETTING UP A WARD

Change the language on the nurses' control unit



- Enter the configuration menu by pressing both scroll buttons at the same time.
- Use the arrows to select the **Install/Configuration** menu, then confirm using the green button.
- Select the **Language** tab and confirm, then use the arrows to select the desired language and confirm with the green button.

Exit the menu and return to the main menu



• Select the **Back** tab, then confirm with the green button.

Area (ward) recognition



- Use the arrows to select **Install/Configuration** in the main menu, then confirm with the green button.
- Now select the **Area Recognition** menu. Confirm with the green button.
- To start the recognition procedure, select **Start procedure**, then confirm with the green button.
- The progress bar shows the status of the procedure.
- Once the procedure has finished, check that all installed devices are present. To do so, use the arrows to select the panel and confirm using the green button.
- The unit can display addresses found for each type of device: use the arrows to select the type (RT, CD, WS, etc) and confirm using the green button.
- To return to the previous menu select **Back**, then confirm with the green button.

- If the room is detected, reconnect and test the other rooms one at a time (see step 4).
- 9 Once all the rooms are connected, issue a ward recognition confirmation from the main nurses' control unit. Check that all rooms are present.

NS = Nurses' control unit Cat. No. 0 766 11

RT = Room unit Cat. Nos. 0 766 06/07

CD = Corridor display unit Cat. Nos. 0 766 04/05

WS = Anti-wandering unit Cat. No. 0 766 06

TRACE = Traceability interface Cat. No. 0 766 17

DECT = DECT interface Cat No. 0 766 19

GW = Gateway Cat. No. 0 766 10

2NS = Secondary nurses' control unit Cat. No. 0 766 09

UA = Information feedback interface Cat. No. 0 766 08

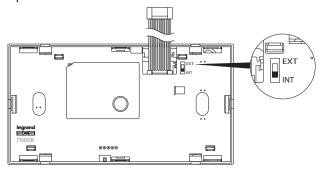
- 10 Check overall operation.
- 11 Clip on all the door units.

Commissioning (continued)

COMMISSIONING THE INTERPHONE

If the interphone unit is equipped with an external microphone

Place the switch on the back of the device in the EXT position



- · Clip on the interphone unit
- Set the microphone sensitivity to ¾ of the possible travel



Check the interphone unit connection

On the interphone unit for the door units of each room, the main nurses' control unit and secondary control units, increase ① and decrease ① the volume: the volume level should be displayed on the screen unit and should vary as the buttons are pressed. If nothing is displayed, check the cable connections on the door unit and interphone unit (disconnect/reconnect).

Check local operation

- From the room interphone units and the main nurses' control unit, set the volume to 50%
- Tester 1 makes a call from the test room door unit
- From the main nurses' control unit, tester 2 answers the call by pressing the microphone button **Q**
- Inside the room, tester 1 stands where the patient would be
- Testers 1 and 2 make contact and talk to one another normally, without raising their voice
- The listening quality must be satisfactory for both of them
- On the main nurses' control unit, tester 2 presses the green button => the call and communication are cut off
- · Repeat all the test steps for each room



The interphone system switches off automatically after 1 minute.



While a call is in progress, no other calls can be made.



Check general calls from the nurses' control unit to all the room door units

 On the main nurses' control unit interphone unit, press and hold down the general call button until the indicators on the interphone module light up and speak => the sound should be heard on all the door unit and secondary control unit interphone units

Debugging

If the sound level is unsatisfactory

- Check the volume on the main nurses' control unit: it should be at 50%
- Increase or decrease the microphone sensitivity (external microphone)

If there is no sound

- Check the microphone wiring (external microphone)
- · Check the cable wiring
- Check the position of the switch on the back of the module (ext or int)

If there is a problem with the general call

Check the number of indicator power supplies
 (1 power supply Cat. No. 0 782 90 for 16 directions)

If there is a buzzing noise

• Check the BUS power supply catalogue number: it should be Cat. No. 0 634 35 or 346000

Commissioning (continued)

CONFIGURING FEEDBACK FROM THE WARDS

Configuring ward feedback



- Enter the configuration menu by pressing both scroll buttons at the same time.
- Use the arrows to select the **Install/Configuration** menu, then confirm using the green button.
- Select the **Ward groups** menu. Confirm with the green button.
- To start the recognition procedure, select **Start procedure**, then confirm with the green button.

- The progress bar shows the status of the procedure.
- Once the procedure is complete, select the wards to be grouped together (maximum of 3).
- To return to the previous menu select **Back**, then confirm with the green button.
- Carry out the same procedure for all wards that will be authorised to forward calls.

Remember to write down the wards to which calls can be forwarded on the memo sheet by the nurses' control unit (ward feedback).



COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19

Physical configuration (configurators)

Configuration of the DECT interface Cat. No. 0 766 19: Allows all messages to be forwarded over DECT (call, emergency, alarm and error)

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9) N2: indicates the device address (0 to 9) M1: type of message sent on the ESPA 4.4.4.

M1 config.	Error message	Alarm	Emergency	Call
1	✓	X	X	X
2	~	V	X	Х
3	~	~	V	Х
4	~	~	V	~
	T04	T03	T02	T01

Example of interface configuration:

A = 1N1 = 9N2 = 9

M1 = 4



Biomedical data is sent to T02.

Anti-wandering data is sent to T02.

If the M1 configurator is configured with jumper 3.

ANB: Description of ESPA 4.4.4 frame: see next page 155 (Message sent in ESPA 4.4.4.) and page 157 (ESPA frame sent via the interface Cat. No. 0 766 19)

Tip: Use the OCC program to check that the ESPA 4.4.4 protocol is working correctly.

Commissioning (continued)

COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19 (continued)

Virtual configuration (software programming)

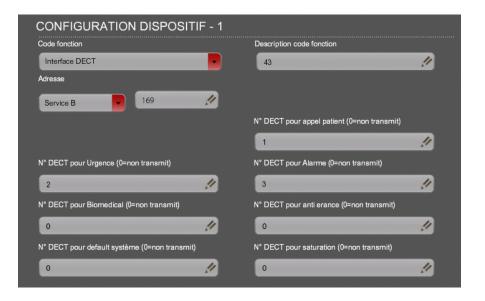


A NB: - Parameter setting using configurators takes priority over software parameter setting

- The interface must always be configured as software version if the door unit SCS addresses are converted to display the room number corresponding to the one written on the door
- If the device has been configured as software version and then changed to configurator version and you want to go back to the software version then it must be reconfigured (it has lost its configuration)

DECT interface Cat No. 0 766 19

- · Address: Device address. No. of ward to which the DECT interface belongs: device SCS address (adjacent device: start with 169 and go down).
- DECT no. xxxxx: Corresponds to the call number in the ESPA 4.4.4 frame linked to a type of event.



A NB: Interface configured as software version in ESPA 4.4.4. frame, field T03. The codes sent are:

- T01 if the DECT no. has been set at 1
- T02 if the DECT no. has been set at 2
- T03 if the DECT no. has been set at 3
- T08 if the DECT no. has been set at 8

call)

Communication settings

• Speed: 9600 bauds

Data bits: 7Parity: EvenStop bit: 1

COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19 (continued)

Message sent in ESPA 4.4.4.

1	2	[ACK]	[SOH] 1 [STX]	1 [US] T03	2[US]C002-!!!	6[US]1[RS]	4[US]3[RS]	3[US]7[ETX]	[ACK]	[EOT] [EOT] [EOT]
[ENQ]	[ENQ]			[RS]	[RS]					
			Message type	Call no. = T03	Message to be transmitted:	Message priority =	Call type = Standard	Audible signal type	2 responds	End of message
					C002- !!!	Normal	Otandard	Beep coding	гезропаз	
1								= 7		

Example of message: C002-!!! To be read: high-level emergency in area C, room no. 002 from the door unit

		_						
Area no.			Roo	m no.			Call source	Event
A	001	031	061	091	121	151	Empty (door unit)	Empty (nothing)
В	002	032	062	092	122	152	1 (bed 1)	! (nurse call)
С	003	033	063	093	123	153	2 (bed 2)	!! (emergency call)
D	004	034	064	094	124	154	W (WC/bathroom)	!!! (high-level emergency
E	005	035	065	095	125	155	B (biomedical emergency)	
F	006	036	066	096	126	156	P (nurse present)	
G	007	037	067	097	127	157	E (system error)]
Н	008	038	068	098	128	158		
1	009	039	069	099	129	159		
J	010	040	070	100	130	160		
	011	041	071	101	131	161		
	012	042	072	102	132	162		
	013	043	073	103	133	163		
	014	044	074	104	134	164		
	015	045	075	105	135	165		
	016	046	076	106	136	166		
	017	047	077	107	137	167		
	018	048	078	108	138	168		
	019	049	079	109	139	169		
	020	050	080	110	140	170		
	021	051	081	111	141	171		
	022	052	082	112	142	172		
	023	053	083	113	143	173		
	024	054	084	114	144	174		
	025	055	085	115	145	175		
	026	056	086	116	146	''		
	020	057	087	117	147			
	027	057	088	117	147			
		!	!	!	1			
	029	059	089	119	149			

150

030

060

090

120

Commissioning (continued)

COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19 (continued)

Event				Me	essa	ige				Description
Nurse present	Α	0	0	1	-	Р				Nurse present in room A:001
Nurse call	Α	0	0	1	-	#		!		Nurse call from source # in room A:001
Emergency call	Α	0	0	1	-	#		!	!	Emergency call from source # in room A:001
Room high-level emergency call (code blue)	Α	0	0	1	-		!	!	!	High-level emergency call 👩 from room A:001
Bathroom high-level emergency call (code blue)	Α	0	0	1	-	W	!	!	!	High-level emergency call 🙎 from bathroom in room A:001
Biomedical alarm	Α	0	0	1	-	В		!	!	Biomedical emergency in room A:001
Escape alarm (start)	Α	0	0	9	-	D		!	!	Escape alarm, door no. 9 in ward A
Escape alarm (end)	Α	0	0	9	-	D	-			Acknowledgement of escape alarm, door no. 9 in ward A
System error (start)	Α	0	0	1	-	Е	+			System error in room A:001
System error (end)	Α	0	0	1	-	Е	-			System restored in room A:001
Hand-held control unit disconnected (start)	Α	0	0	1	-	н	+			Hand-held remote control unit disconnected in room A:001
Hand-held control unit disconnected (end)	Α	0	0	1	-	н	-			Hand-held remote control unit reconnected correctly in room A:001
BUS/SCS overload (start)	BUS/SCS overload (start) A-SCS overload+				ad+		BUS/SCS overload (communication) in ward A			
BUS/SCS overload (end) A-SCS overload-				ad-			End of BUS/SCS overload (communication) in ward A			



# = C:	all source
Door unit	
Bed 1	1
Bed 2	2
Bed 3	3
Bed 4	4
WC/Bathroom	w

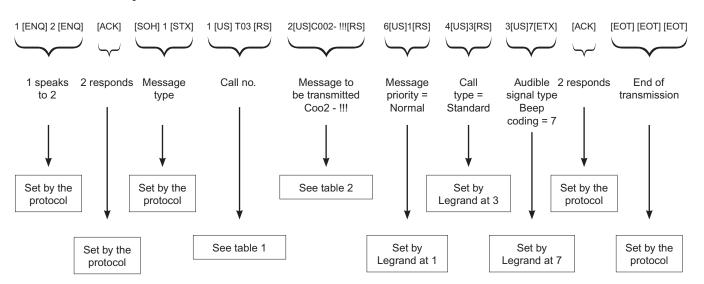
Note:

Discuss with the telephone coupler manufacturer. They can guide you based on the information contained in these last 2 pages. These manufacturers usually have a telephone helpline.



COMMISSIONING THE DECT INTERFACE CAT. NO. 0 766 19 (continued)

ESPA frame sent by interface Cat. No. 0 766 19



If physical	configuration
Patient call	T01
Emergency	T02
Alarm	T03
System error	T04
PRESENCE	Depending on the previous event
	Example: Simple call => T01 Presence => T01 Emergency => T02 Presence => T02 Alarm => T03 Presence => T03

If virtual	configuration	
Patient call	Txxx	Xxx= Number recorded in the
Emergency	Txxx	field corresponds in virtual
Alarm	Txxx	configurator.
Biomedical call	Txxx	
Anti-wandering	Txxx	If xxx= 0, message not
System error	Txxx	transmitted to the pabx.
Saturation	Txxx	
Presence	Depending on the previous event	

Commissioning (continued)

COMMISSIONING THE TRACEABILITY INTERFACE CAT. NO. 0 766 17

Physical configuration (configurators)

Configuration of the traceability interface

Cat. No. 0 766 17

Used to memorise all events (up to 100,000) that happen in a ward.

A: indicates the area to which the device belongs (0 to 9)

N1: indicates the device address (0 to 9)

N2: indicates the device address (0 to 9)

M1: operating mode when the interface memory is full

- 1: older records are overwritten by new ones
- 2: new records are suspended until old records have been saved and deleted from the interface

M2: not in use

Example of interface configuration:

A = 1

N1 = 9

N2 = 8M1 = 1

M2: not in use



Virtual configuration (software programming)



A NB: - Parameter setting using configurators takes priority over software parameter setting

- The interface must always be configured as software version if the door unit SCS addresses are converted to display the room number corresponding to the one written on the door
- If the device has been configured as software version and then changed to configurator version and you want to go back to the software version then it must be reconfigured (it has lost its configuration)

Traceability interface: Cat. No. 0 766 17 In independent configuration of the installation (standalone), the device must be connected to the BUS and to power supply terminals 1 and 2.

- · Address: Device address. No. of ward to which the traceability interface belongs: device SCS address (adjacent device: start with 169 and go down).
- Full memory management mode: Either overwrite the oldest events/or stop recording.
- Function code description: Used to identify the room (blank field).



- Example for a nursing home with 80 rooms
 - Approximately 35,000 events per month
 - Generates a backup file of approximately 2 MB
 - The traceability interface must be backed up and emptied every 2 months
 - Caution, after 2.5 months, data will be lost
- Example for a hospital ward with 30 rooms
 - Approximately 13,000 events per month
 - Generates a backup file of approximately 800 KB
 - The traceability interface must be backed up and emptied every 6 months
 - Caution, after 7 months, data will be lost
- · LEGRAND TIP: Back up and empty the traceability interface once a month

Commissioning (continued)

COMMISSIONING THE TRACEABILITY SOFTWARE CAT. NO. 0 766 18

System requirements:

- PC with Pentium processor ≥ 1 GHz
- RAM: 512 MB (XP) or 1 GB (Vista/7)
- SVGA graphics card with 800x600 pixels, 256 colours
- 500 MB of hard disk space available
- CD-ROM drive
- Mouse
- Windows XP (32-bit) Service Pack 2, Vista (32 and 64-bit), Windows 7 (32 and 64-bit)
- A spreadsheet compatible with .csv files (eg: Excel, etc)

A You must have administrator rights to install the software.

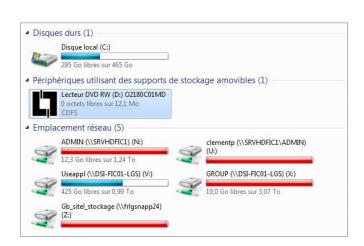
• Microsoft .NET Framework 4.0

Installing the software
Insert the CD in the PC drive.

If AutoRun begins, ignore it, close the window and proceed as follows:

• Open the CD drive contents.

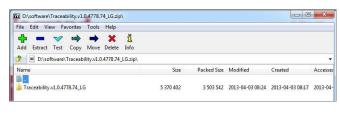
Open the software directory.







• Copy the "Traceability" file to the hard disk, then unzip it.



· Open the folder and click Install.



- Create a program shortcut on the desktop:
- Click on "Start" menu → "All programs" → "Legrand" → "Traceability"
- Right-click on "Traceability", then click "Send to" → "Desktop (create a shortcut)"
- Double-click on the "Traceability" shortcut to launch the program
- When the program is launched, the screen displays the Settings menu. At this stage the device is not yet connected, so it is only possible to click on "Network settings" and "Exit".



· Connect the traceability interface Cat. No. 0 766 17 to the PC using the USB/mini-USB cable supplied (mini-USB at interface end, USB at PC end).

A If you have any problems, refer to the manual supplied with the software.

Commissioning (continued)

COMMISSIONING THE TRACEABILITY SOFTWARE CAT. NO. 0 766 18 (CONTINUED)

• Click on "Scan Ports".



• The software automatically assigns a port.

If no port is found, an error message is displayed. In this case, connect the cable to a different USB port and try to scan the ports again.

Info: The connection test button is used to test the device connectivity on the selected port.

• Once the interface is connected to the software, all the icons will be accessible.







• Go to the Settings icon



→ Set the date and time.

The date and time must be set exactly the same as those of the building.

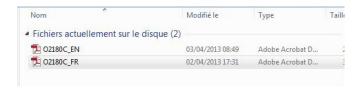


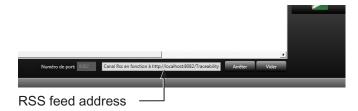
→ Configure the management policy for Full Memory. This parameter has already been set when configuring the traceability interface Cat. No. 0 766 17.

2 options:

- Physical configuration (configurators). In this case, keep the same configuration.
- Virtual configuration (software programming). In this case, ideally keep the configuration exactly the same. Otherwise, the traceability software configuration has priority.
- · To find out how the software works, refer to the manual on the CD: D:(O2180C01MD)\pdf\utente\O2180C_EN

ANB: To configure the RSS feed reader on a remote computer, use the address found in the bottom right of the window (this address appears once the feed is enabled) by replacing "localhost" with the IP address of the computer connected to traceability interface Cat. No. 0 766 17.





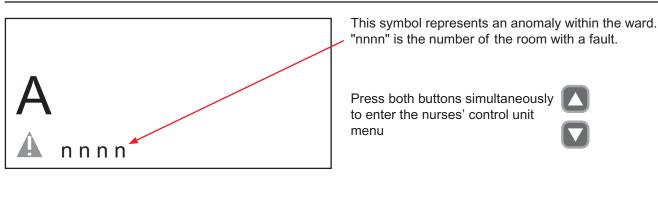
A If you have any problems, refer to the manual on the software CD.

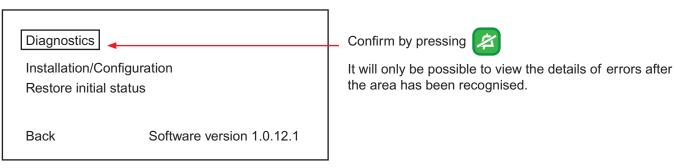
Maintenance codes (visible on nurses' control unit) and software version

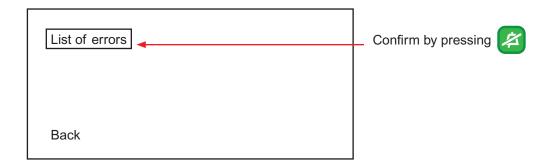


Software version and mechanical version: see last page of the guide.

NURSES' CONTROL UNIT DIAGNOSTICS

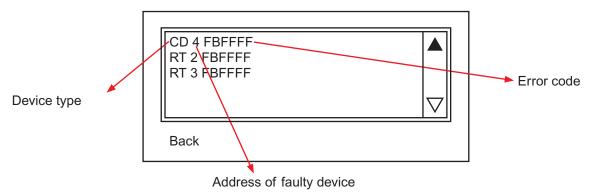






Error message on corridor display unit

List of faulty devices visible on nurses' control unit



NS = Nurses' control unit Cat. No. 0 766 11

RT = Room unit Cat. Nos. 0 766 06/07

CD = Corridor display unit Cat. Nos. 0 766 04/05

WS = Anti-wandering unit Cat. No. 0 766 06

TRACE = Traceability interface Cat. No. 0 766 17

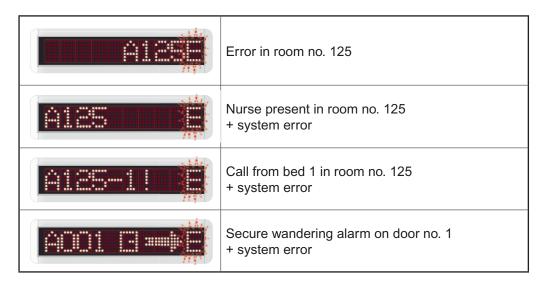
DECT = DECT interface Cat No. 0 766 19

GW = Gateway Cat. No. 0 766 10

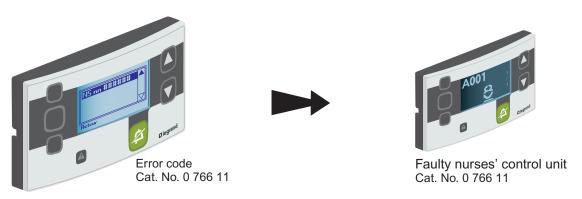
2NS = Secondary nurses' control unit Cat. No. 0 766 09

Examples of error messages on corridor display unit

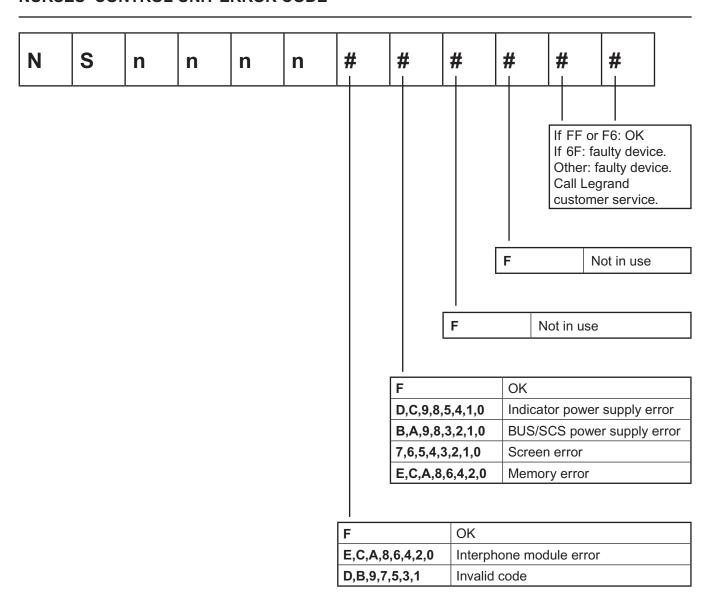
When "E" is displayed on the corridor display unit, consult the nurses' control unit to find out which device is faulty.



Maintenance codes (visible on nurses' control unit)



NURSES' CONTROL UNIT ERROR CODE







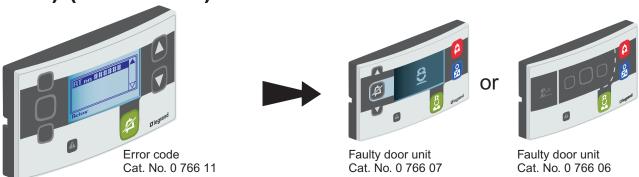


Faulty secondary control unit Cat. No. 0 766 09

SECONDARY CONTROL UNIT ERROR CODE

	,											
N		s	n	n	n	n	#	#	ı	ı	#	#
									F	If 6l Oth Call cus	Legran tomer se	device. y device. d
								F D,C,9,8,5	5410	OK Indicate	or nowe	r supply
								D,0,3,0,0	7, 4, 1,0	error	or powe	ГЗирріу
								B,A,9,8,3	3,2,1,0	BUS/S error	CS pow	er supply
								7,6,5,4,3	,2,1,0	Screen	error	
								E,C,A,8,6	6,4,2,0	Memor	y error	
							F		ОК			
							E,C,A,8	3,6,4,2,0	Interpl	none mo	dule err	or
							D,B,9,7	,5,3,1	Invalid	code		

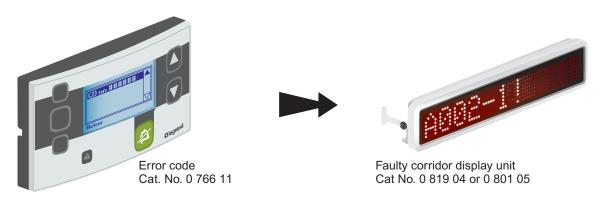
Maintenance codes (visible on the nurses' control unit) (continued)



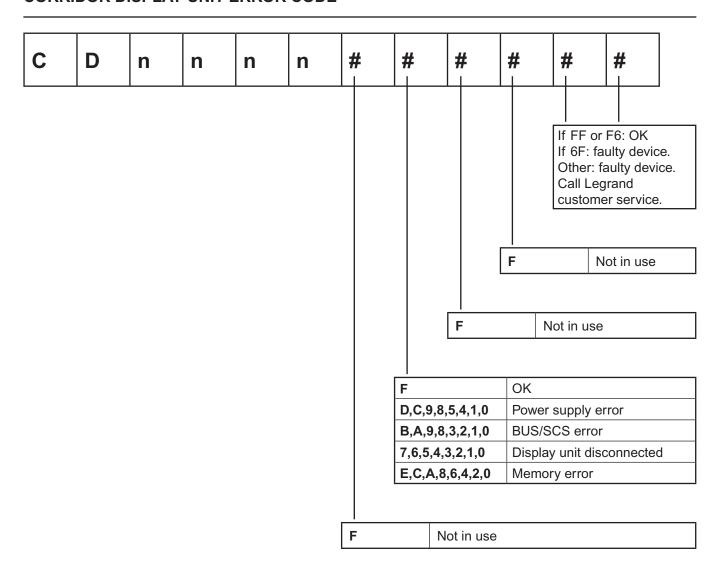
DOOR UNIT ERROR CODE

1	•	n	n	n	n	#	#	#	#	#	#	
									E,C,A,8 6,4,2,0 D,C,9,8 5,4,1,0 B,A,9,8	If 6F: Other: Call L custor B, Bed 2 error Bed 2 error	or F6: OK faulty dev faulty devergrand mer service h/h r.c. u	ice. vice. e. nit LEC
									3,2,1,0 7,6,5,4, 3,2,1,0 F	Bed 1	error 1 h/h r.c. u nnected	nit
								E,C,	A,8,6,4,2,0		h/h r.c. un nected	it
								D,B,	7,5,3,1	Code r	not valid	
							E,C,	A,8,6,4,2	0 Memory	error		
							D,C,9	9,8,5,4,1,	0 Indicato		supply er	ror
							_	9,8,3,2,1,				
							7,6,5	,4,3,2,1,0	Screen	error (0	766 07)	

E,C,A,8,6,4,2,0	Interphone module error
D,C,9,8,5,4,1,0	Red corridor lamp error
B,A,9,8,3,2,1,0	Green corridor lamp error
7,6,5,4,3,2,1,0	White corridor lamp error
F	OK



CORRIDOR DISPLAY UNIT ERROR CODE



Maintenance codes (visible on the nurses' control unit) (continued)







Faulty BUS/SCS extension Cat. No. 0 770 10

BUS/SCS EXTENSION ERROR CODE

Cat. No. 0 766 11

G	w	n	n	n	n	#	#	#	#	#	#	
								F	F	If 6F: f Other: Call Le service	Not in use	ce.
							F D,C,9, B,A,9,	8	BUS/	SCS erro	r supply er	ror
							6,5,4,3,2,1,0 E,C,A,8			d code ory error		
					[F		Not in us	е			







Faulty traceability interface Cat. No. 0 766 17

TRACEABILITY INTERFACE ERROR CODE

Т	R	Α	С	E	n	n	n	n	#	#	#	#	#	#
											F	If d C d L	FF or F 6F: fau evice. ther: fa evice. C egrand ustome ervice.	ulty Call
										F D,C		OK Powe	r suppl	y error
										0,B E,C			d code ory erro	
									F		Not in	use		

Maintenance codes (visible on the nurses' control unit) (continued)







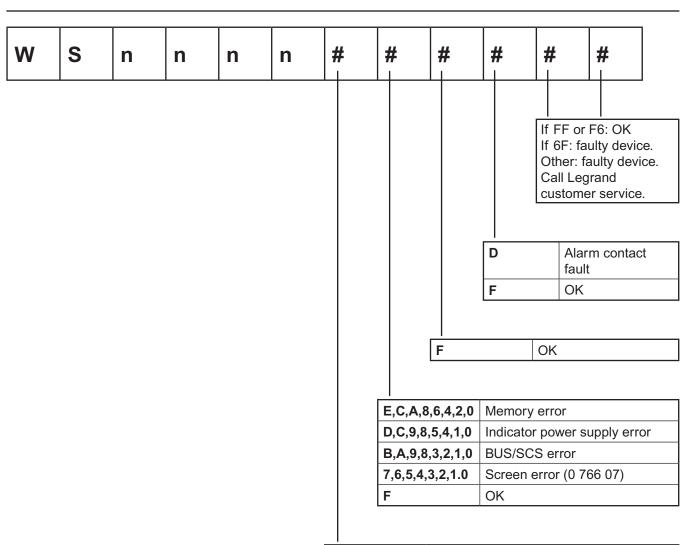
Faulty DECT interface Cat. No. 0 766 19

DECT INTERFACE ERROR CODE

D	Е	С	Т	n	n	n	n	#		#	#	;	#	#	#
											F		If de O de Le	FF or F 6F: fau evice. ther: fa evice. C egrand ustomer ervice.	ulty Call
									Γ	F			OK		
										D,C,9,	8,5,4, ⁻	1,0	Powe	er supp	ly error
										B,A,9,	8,3,2,	1,0	BUS	/SCS e	rror
										7,6,5,4	4,3,2,1	.0	disco	32 cabl onnecte with PA	ed (no
										E,C,A	,8,6,4,	2,0		ory err	
								F			Not i	n us	se		



DOOR CONTROLLER ERROR CODE



D,C,9,8,5,4,1,0	Red corridor lamp error				
F	OK				

Maintenance codes (visible on the nurses' control

unit) (continued)







Faulty information feedback interface Cat. No. 0 766 78

ERROR CODE FOR INFORMATION FEEDBACK INTERFACE

U	A	n	n	n	n	#	#	#	#	;	#	#		#	#	#
												F		If (de Ot de Le cu	FF or F 6F: faul vice. her: fau vice. Ci grand stomer rvice.	ty ulty all
										\vdash	F			OK		
											D,C D,B		\dashv		r supply d code	
											E,C				ory erro	
									F			Not	n u	se		



Troubleshooting

ERROR TYPE	DIAGNOSTICS
Door unit Cat. No 0 766 06 or 0 766 07 flashes, displaying the software version number.	Add the configurator to the door unit in position M2 which must be 1 or 2. See device physical configuration table in the <i>Parameter setting</i> section (door units 0 766 06/07)
A transient error on the door unit (between 1 and 30 s): 1	Check if the hand-held remote control unit common (call) is connected to the correct terminal
"Burned-out" door unit (smell of singed electronic component)	Check the wiring on terminal 19: the problem is either a short-circuit between the common and terminal 19, or excessive voltage on terminal 19
Door overhead light unit not working	Check the indicator power supply and its polarity
Interphone module not working	Disconnect and reconnect the cables at each end
Remote acknowledgement not working	Check the position of both microswitches on the back of the door unit
"Ø" is displayed on the main nurses' control unit	BUS congestion: too many messages circulating on the BUS/SCS. Check whether the ward wiring complies with the installation principle or whether the installation includes a faulty device
Call or presence which cannot be acknowledged	Check the microswitch positions. They must be in the ON-ON position if there is no remote acknowledgement button. For other scenarios, see the data sheet for door units Cat. Nos. 0 766 06/07
Chaser effect on all the overhead light units	Not all the hand-held remote control units have yet been connected The BUS power supply is no longer present or is faulty
Chaser effect on one overhead light unit	 Check that the hand-held remote control units, pull cords and monitor lights are present. If not, add a 100 kΩ/0.25 W resistor Check that the contacts on the hand-held remote control units, pull cords and handicap contactors (if present in the installation) are normally closed
The indicator light on the hand-held remote control unit never comes on, even though the wiring is correct	Check the hand-held remote control unit Cat. No. It is undoubtedly an incompatible Mosaic hand-held remote control unit without monitor and indicator lights Cat. Nos. 0 782 01/02/03

Product developments

CAT. NOS.	DESCRIPTION	VERSION	DEVELOPMENT	APPLICATION DATE		
0 766 11/09	Nurses' control unit	1.0.12	Creation	11W45		
0 766 06/07 0 766 08	Door unit Interphone module	01/01/2011	Compatible with virtual configuration	12W26		
0 766 10 0 766 04/05	BUS/SCS extension Corridor display unit	01/02/2010	Update for 0 782 19 (bed extension)	13W09		
	Ι		Change of display unit internal			
0 766 04/05	Corridor display unit	01/02/2010	power supply	12W40		
		1.0.12	Creation	11W45		
0 766 19	DECT interface	01/01/2011	Compatible with virtual configuration	12W26		
0 700 19	DECTINENACE	01/02/2010	Update for 0 782 19 (bed extension)	13W09		
		01/02/2016	Updating of technical messages	14W07		
		01/01/2014	Creation	12W26		
0 766 17	Traceability interface	01/02/2010	Update for 0 782 19 (bed extension)	13W30		
0 766 18	Traceability software	1.0.4778.74	Creation	13W30		
0 782 19	Bed extension	01/02/2010	Creation	13W08		
0 782 40	1-button hand-held remote control unit	1	Creation	11W41		
0 782 81	1-button hand-held remote control unit	1	Replacement of hand-held remote control unit 0 782 40 (softer button)	18W17		
	3-button hand-held	1	Creation	11W41		
0 782 42	remote control unit	2	Addition of mechanical stops to control buttons	13W36		
0 782 82	3-button hand-held remote control unit	1	Replacement of hand-held remote control unit 0 782 42 (softer button)	18W17		
	6-button hand-held	1	Creation	11W41		
0 782 44	remote control unit	2	Addition of mechanical stops to control buttons	13W47		
0 782 84	6-button hand-held remote control unit	1	Replacement of hand-held remote control unit 0 782 44 (softer button)	18W17		
0 782 41/45/46/47	Magnetic socket	1	Creation	11W41		
			Creation	11W45		
0 782 48L	Bathroom pull cord	1	Enhanced production control	13W49		
	·		New version of magnet	16W42		
0 782 49/51	Non-standard call button	1	Creation	11W45		
0.700.40		_	Creation	12W26		
0 766 16	Configuration kit	1	Change in cabinet	13W26		
		1	Creation	12W26		
0 766 15	Virtual configuration	2.2	Change to bed extension (0 782 19)	13W09		
0 700 10	software	3.0	Change to interface for programming information feedback (0 766 78)	16W01		

CAT. NOS.	DESCRIPTION	VERSION	DEVELOPMENT	APPLICATION DATE		
0 766 70	3-colour indicator	1	Creation	11W45		
0 766 06/07	Door unit	05 1210 00	Remote acknowledgement option	15W23		
0 766 11	Nurses' control unit	01 1221 00	Change to ward forwarding	15W13		
	Halogen-free BUS/SCS		Creation	11W45		
0 492 33	cable, 200 m reel	1	Superseded by Cat. No. 0 492 72	18W17		
0 492 72	Halogen-free BUS/SCS 0 492 72 cable, new standard, 200 m drum		Creation Replacement of Cat. No. 0 492 33 following changes to the cable standards	18W17		
0 492 73 Halogen-free BUS/SCS cable, 500 m drum		1	Creation Superseded by Cat. No. 0 492 75	11W45		
Halogen-free BUS/SCS 0 492 75 cable, new standard, 500 m drum		1	Creation Replacement of Cat. No. 0 492 73 following changes to the cable standards	18W17		

See label on back of the device to find out which version it is.

Example: **05 1210 00**:

Mechanical version 1210 00
Software version

Llegrand

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