

PLX22X00

Cubik-VHD

v1.0

Programming manual



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1 General description

The Cubik-VH (Ref. PL221X00) is a hotel room door device. It has two icons which allow to distinguish between “Do Not Disturb” (DND) mode and “Make Up Room” (MUR) mode. It also has a doorbell button and a screen in which, in addition to displaying the room number, messages sent through the KNX bus can be displayed. The room number, the colours of the background, the colours of that number and the colour and time that the text entered through the bus is displayed are configurable from the ETS

In terms of its operation:

- When the “Do Not Disturb” (DND) mode is activated, both the doorbell LED and the “Do Not Disturb” (DND) LED will be lit in red. The “Make Up Room” (MUR) LED will be off.
- When the “Make Up Room” (MUR) is activated, the “Make Up Room” LED will be lit in green. The “Do Not Disturb” (DND) LED will be off. The doorbell LED will be lit in green if the room is occupied and will be off if the room is unoccupied.
- If both “Do Not Disturb” (DND) mode and “Make Up Room” mode are deactivated, both “Do Not Disturb” (DND) LED and “Make Up Room” LED will be off and the doorbell LED will be lit in green if the room is occupied and will be off if the room is unoccupied.

2 Technical information

KNX supply	29Vdc from KNX BUS.
KNX consumption	15 mA del bus KNX Equivalent to 3 BUS devices*
Mounting	Built-in on universal distribution box
Size	129 x 88 x 6 mm
Connection	KNX BUS connection
Environment temperature range	Operation: -10°C / 55°C Storage: -30°C / 60°C Transportation: -30°C / 60°C
Regulation	According to the directives of electromagnetic compatibility and low voltage: EN 50090-2-2 / UNE-EN 61000-6-3:2007 / UNE-EN 61000-6-1:2007 / UNE-EN 61010-1
Inputs	1 touch area
Outputs	2 status indicators

*(1 BUS device=5mA)

3 Programming

3.1 Application program information

Manufacturer: Ingenium

Application: Cubik-VH

Maximum number of communication objects: 7

Maximum number of assignments: 7

Version: v1.0

3.2 Communication objects table

Object	Name Function	Lenght	DPT	Flags			
0	DND/MUR mode DND/MUR ('1'/'0')	1 bit	1.001	C		W	
0	DND Mode Activate/Deactivate ('1'/'0')	1 bit	1.001	C		W	
1	DND/MUR mode DND/MUR ('1'/'0') status	1 bit	1.001	C	R		T
1	DND Mode Activate/Deactivate status ('1'/'0')	1 bit	1.001	C	R		T
2	MUR Mode Activate/Deactivate ('1'/'0')	1 bit	1.001	C		W	
3	MUR Mode Activate/Deactivate status ('1'/'0')	1 bit	1.001	C	R		T
4	Room status Occupied/Unoccupied ('1'/'0')	1 bit	1.001	C		W	
5	Room status Occupied/Unoccupied status ('1'/'0')	1 bit	1001	C	R		T
6	Bell action Press/Release ('1'/'0')	1 bit	1.001	C			T
7	Text Line 1	14 bytes	16.000	C		W	
8	Text Line 2	14 bytes	16.000	C		W	

3.3 Communication objects description

Object	Object 0: DND/MUR mode DND/MUR ('1'/'0')
Function	1-bit communication object to activate the "Do Not Disturb" mode (DND) or the "Make Up Room" mode (MUR).
Description	Writing through this object it is possible to activate the "Do Not Disturb" mode (DND) (= 1) or the "Make Up Room" mode (MUR) (= 0).
Object	Object 0: DND Mode Activate/Deactivate ('1'/'0')
Function	1 bit communication object to activate the "Do Not Disturb" (DND) mode
Description	Writing through this communication object you can activate (=1) or deactivate (=0) the "Do not Disturb" (DND) mode
Object	Object 1: DND/MUR mode DND/MUR ('1'/'0') status

Function	1 bit communication object to read or notify the mode status: "Do Not Disturb" (DND)/"Make Up Room" (MUR)
Description	Through this object you can read or notify if the device is in "Do Not Disturb" mode (DND) (=1) or in "Make Up Room" mode (MUR) (=0).
Object	Object 1: DND Mode Activate/Deactivate status ('1''0')
Function	1 bit communication object to read or notify the status of the "Do Not Disturb" (DND) mode.
Description	Through this object you can read or notify if the "Do Not Disturb" (DND) mode is activated or deactivated. The polarity is the same as in the writing object (1=activated, 0=deactivated)
Object	Object 2: MUR Mode Activate/Deactivate ('1''0')
Function	1 bit communication object to activate the "Make Up Room" (MUR) mode
Description	Writing through this communication object you can activate (=1) or deactivate (=0) the "Make Up Room" (MUR) mode.
Object	Object 3: MUR Mode Activate/Deactivate status ('1''0')
Function	1 bit communication object to read or notify the status of the "Make Up Room" (MUR) mode.
Description	Through this object you can read or notify if the "Make Up Room" (MUR) mode is activated or deactivated. The polarity is the same as in the writing object (1=activated, 0=deactivated)
Object	Object 4: Room status Occupied/Unoccupied ('1''0')
Function	1 bit communication object to change between "Occupied room" and "Unoccupied room"
Description	Writing through this object you can change between "Occupied room"(=1) and "Unoccupied room" (=0).
Object	Object 5: Room status Occupied/Unoccupied status ('1''0')
Function	1 bit communication object to read or notify the room status: "Occupied room" or "Unoccupied room"
Description	Through this object you can read or notify if the room is occupied or unoccupied. The polarity is the same as in the writing object (1=Occupied, 0=Unoccupied)
Object	Object 6: Bell action Press/Release ('1''0')
Function	1 bit communication object that is activated by pressing the touch area of the device.
Description	The object will send a "1" while the touch area of the device is being pressed and a "0" while the touch area isn't being pressed.
Object	Object 7: Text Line 1
Function	14 bytes communication object to write a text on the line 1 of the screen
Description	Writing through this object, the written text will appear on line 1 of the screen
Object	Object 8: Text Line 2
Function	14 bytes communication object to write a text on the line 2 of the screen
Description	Writing through this object, the written text will appear on line 2 of the screen

3.4 Parameters

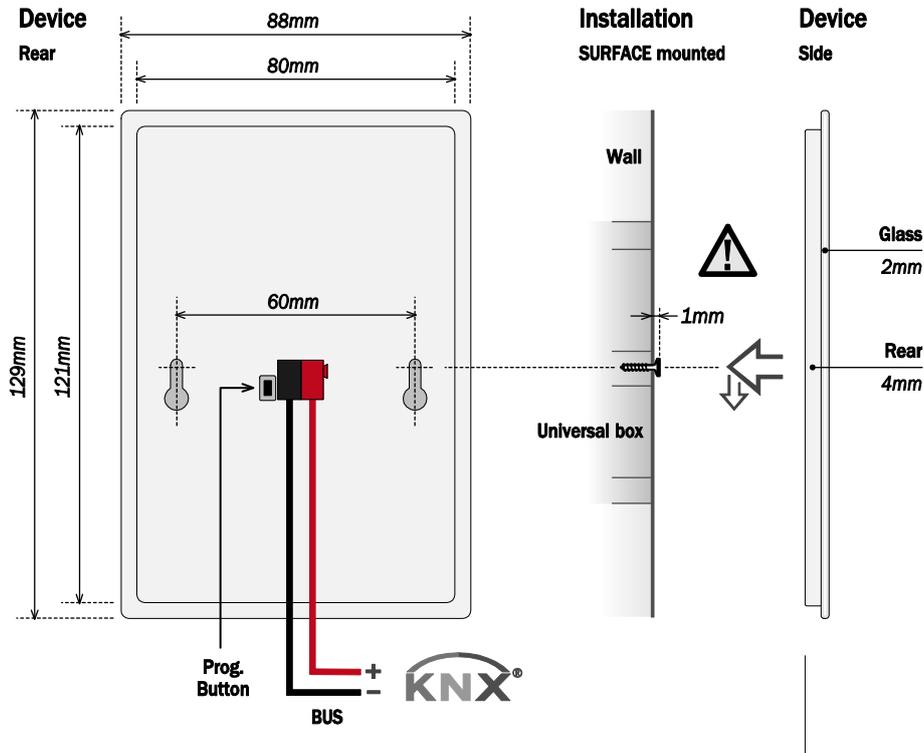
Name	Number of the room
Values	From 0 to 1000
Description	In this parameter you enter the room number you want to show on the display

Name	Modes: separated communication objects
Values	Yes/No
Description	In this parameter, you can choose between separate objects or a single object for the modes
Name	Background colour
Values	Black/White/Green/Red/Orange/Blue/Gray/Yellow/Beige
Description	In this parameter, the background color of the display is selected
Name	Number colour
Values	Black/White/Green/Red/Orange/Blue/Gray/Yellow/Beige
Description	In this parameter, the desired color for the room number in the display is selected
Name	Text colour
Values	Black/White/Green/Red/Orange/Blue/Gray/Yellow/Beige
Description	In this parameter you select the color you want for the text that is shown on the display
Name	Time shown
Values	From 0 to 255 seconds
Description	Time the text is displayed on the display

4 Installation

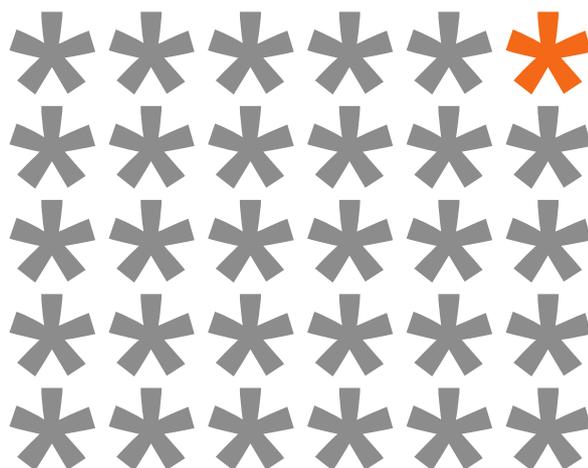


The device is installed hanging from the two parallel grooves on its rear.
Two conical head screws are used in wall and/or universal mechanism box.
It is **VERY IMPORTANT** that the screws head exceeds 1mm from the wall.



Feed low voltage lines (BUS) in separate ducting to that of power (230V) to ensure there is enough insulation and avoid interferences.

Do not connect the main voltages (230 V) or any other external voltages to any point of the BUS or inputs.



KNX products by **ingenium**



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Manual version: v1.0