Wireless Peripherals

Wireless peripherals can be used to trigger alarms and events via the CLB C5100 Wireless Module, allowing flexible use of peripherals without the complexity of wired infrastructures.

Wireless Peripherals

Wireless peripherals

Wireless peripherals can be used to send alarm events to the CLB alarm distribution system. The CLB C5100 Wireless module receives the wireless signal and forwards it to the central system. Wireless peripherals can be used anywhere within the range of the C5100 module, without the need to be physically connected.

Full integration of the wireless peripherals with the CLB system makes it easy to manage the wireless peripherals. Management of the peripherals can be done from a single screen in the CLB Configurator or CLB Event Handler Client.

A variety of wireless peripherals is available to meet the unique needs of many use situations. An overview:

1. Wireless alarm pendant
A wireless alarm pendant (1) is a wireless nurse call button which can be used by a care receiver to make a nurse call. This pendant can be worn in two ways: around the neck with a special cord, or on the wrist using a wrist band. By pressing the big button a nurse call alarm can be made.

The user receives feedback (vibrate and LED) that the communication with one of the wireless receivers was succesfull. If desired, the second, smaller, button can be programmed to trigger a second notification type.

2. Wireless universal input module
The wireless universal input module (2) can be used to connect a NO / NC wired peripherals, such as pressure sensors, to CLB's alarm distribution system via the wireless module.

3. Wireless motion sensor
The wireless motion sensor (3) is a narrow field PIR with highly reliable bidirectional communication. These sensors can be used for regular motion detection, in/out bed detection, fall prevention and as curtain PIR.

4. Wireless Pull Cord
The wireless pull cord (4) is a battery powered pull cord which can be used in bathrooms to make nurse calls, without the need physically connect module to the system.

| *1. Alarm pendant* | *2. Universal input module* | *3. Wireless Motion sensor* | *4. Wireless Pull Cord* |

Improve care by innovation

FEATURES

Battery status and heartbeat

All wireless peripherals have battery level monitoring to eliminate the need for preventive battery exchange and a heartbeat to ensure no alarms are lost.

868 Mhz

The wireless peripherals are using the European standardized frequency 868Mhz. This highly reliable signal has multiple benefits. It is less sensitive for disturbance, has very low energy consumption and has a big reach.

Bidirectional communication

All wireless peripherals are able to send *and* receive RF-signals (bidirectional communication). This has the advantage that for every message it is verified whether the message has reached it's destination. If the message is not received properly by the C5100 Wireless module (Figure 1 & 2), the message is automatically repeated several times. The end user receives feedback that the communication was successful or not.

Figure 1: CLB C5100 Wireless Module with internal antenna

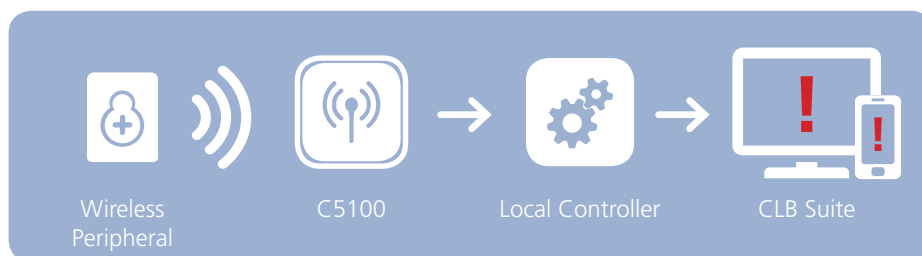*Figure 2: CLB C5100 Wireless Module with external antenna*

CONFIGURATION EXAMPLE

Wireless Peripheral → C5100 → Local Controller → CLB Suite

Figure 3: Wireless alarm distribution diagram

TECHNICAL SPECIFICATIONS

Housing	ABS	**Protection Class**	
Color		*Alarm pendant*	IP67
PIR / Universal input	00 White (RAL 9016)	*PIR / Universal Input*	IP41
Alarm Pendant	04 Grey		
Operating Frequency	868 MHz	**Product standards**	
RF Transmitting power	Max. 13 dBi (20mW)	*Radio permission*	EN300 220-1
Voltage Alarm pendant	Battery CR2430, 3Vdc	*EMC-R&TTE*	EN301-489-3
Voltage Motion Sensor	Battery 2x LS14500, AA, 3.6Vdc	*Environmental*	RoHS/WEEE