The Single Acoustic Monitoring module provides superior AM functionality via a small elegant device. This unit is primarily used for acoustic monitoring and talkback. Its non-intrusive design blends easily into modern healthcare buildings.

C1610 AM Module

PRODUCT SHEET

C1610 'Single' Acoustic Monitoring Module

Acoustic Monitoring

The C1610 is part of CLB's Acoustic Monitoring system which continuously monitors sounds in a room and triggers an alarm when levels exceed set thresholds. Staff are thereby immediately informed when a patient is in distress, without having to carry out routine in-room checks. This enables better patient sleep cycles and improved privacy. Thresholds and sensitivity can be adjusted remotely according to each patient's needs and circumstances (e.g. time of day). Operators have the ability to listen back to pre and post alarm recordings to personally verify the situation, and can converse with the patient via the system to check or reassure. Speaker volumes can be adjusted as required. Acoustic Monitoring offers the added benefit of enabling more efficient deployment of staff, which leads to significantly improved care as well as cost savings.

Design

The C1610's non-intrusive design embodies over 35 years' experience in the healthcare industry. The unit is designed to be non-intrusive: The speaker and microphone are discretely incorporated. The tilted shape at the top of the device prevents objects, such as ropes, from becoming caught over the upper edge of the device.

Privacy LED

For privacy purposes, the C1610 module is equipped with a blue LED light which is activated when the unit is active (monitoring in progress). This functionality can be (de)activated per service user. Moreover, the LED dims automatically based on environmental lighting so that the unit remains non-intrusive, even during the night.

Anti-sabotage

A C1610 module incorporates an anti-sabotage functionality, which instantly alerts staff when the device's speaker or microphone has been sabotaged.

C-series: setting the new standard

C-serie modules are connected to one of the two bus strings (CAT5) of a CLB C810x local controller. In many cases, the existing infrastructure can be used to connect the devices and set-up the system. After a simple basic training, technicians are capable of installing the hardware and checking connection integrity.

Moreover, the C1610 modules' firmware can be updated remotely after being connected to the server. After installation and configuration, the system continuously monitors all modules. When a C1610 module is disconnected, disabled or having a malfunction, a warning message is generated to alert an operator or system administrator.

Improve care by innovation
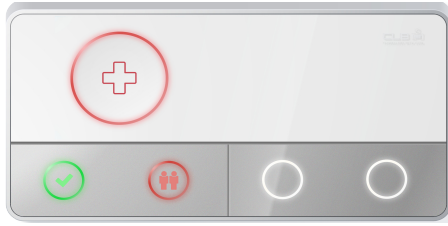
C1600 Double Acoustic Monitoring & Nurse Call module

C2610 Single Nurse Call Module

FUNCTIONALITIES

Hardware Features
- A built-in speaker and microphone
- Digital speech and audio
- For privacy purposes a blue LED light (auto-dimmed) can indicate when the unit is active (monitoring in progress)
- IPA 70% resistant

Software features
- Acoustic monitoring settings and activation can be adjusted per client / device
- Volume and time thresholds can be adjusted per client / device to modify the sound trigger's sensitivity
- Microphone sensitivity and speaker volume can be adjusted to client needs and room conditions
- Talk back functionality & blue indication light can be disabled per client / device

Memory function

The memory function facilitates playback of the audio event which triggered the acoustic alarm. This optional function can be activated through the software, with the trigger point being set anywhere within a 16 second cyclic buffer. The default setting is 8 seconds pre-alert and 8 seconds post alert playback.

TECHNICAL SPECIFICATIONS

Dimensions (mm; WxHxD)	*flush: 86 x 90 x 11.8* *surface*: 92 x 90 x 29	**Bus connection rear**	8 Pin / Header (CAN bus)
Mounting	1x back box	**Surface**: Phoenix push in spring	
	Min. depth 50mm	**Flush**: Phoenix screw connector	
	Mounting screws at	**Protection class**	IP40 (when mounted)
	60 mm (e.g. U50)	**Approvals**	CE
Material	PC	**Product standards**	NEN-EN-IEC 60601-1:2006
LEDs	1 Blue LED		NEN-EN-IEC 60601-1-2:2007
Supply voltage	24 Vdc		NEN-IEC 60601-1-8:2007
Max power consumption	1060 mW	**Product regulations**	93/42/EEC concerning medical devices (14 June 1993)

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