CLB
TECHNOLOGY WITH CARE

CLB C1600 NC + AM Module

The C1600 Nurse Call & Acoustic Monitoring module brings these two functionalities together, along with domotics steering, in a single user-friendly module. Suitable for use in hospitals and other healthcare environments, its contemporary design blends easily into modern healthcare surroundings

PRODUCT SHEET

C1600 'Double' Nurse Call & Acoustic Monitoring Module

Acoustic Monitoring

The C1600 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.

Service User

Care Provider

Service user vs. Care provider use

Nurse Call

The C1600 facilitates Nurse Call via backlit buttons which can be set to only illuminate when each specific service is available. Colours can also be specified to match each configured function. A light sensor automatically adjusts the brightness of the LEDs according to ambient lighting conditions.
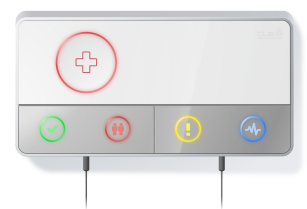
Design

The C1600's non-intrusive design embodies over 35 years' experience in the healthcare industry. The Nurse Call element has one large button for patient use and a bottom row of smaller buttons for staff. Speaker and microphone are discretely incorporated, while the only-as-relevant backlit buttons keep the look simple and subtle. The tilted shape at the top of the device prevents objects, such as ropes, from becoming caught over the upper edge of the device.

Peripherals options

Two Mini Jack ports at the bottom front of the module can be used to connect a pear push or other sensors such as bedmats, motion detectors, etc.

Additionally the two I/O ports at the rear which can be used to connect a pull cord or door contact monitor.

The C1600 is able to detect a connected pear push and can give a warning signal when it has been disconnected.

C 1600 Mini Jack ports

Improve care by innovation

CONFIGURATION EXAMPLES

The C1600 module can be configured to accommodate different functional preferences for Nurse Call. The display is divided into three areas which can be set up independently to suit medical and/or building automation purposes as required.

Assistance + Universal

Assistance + Emergency

Directions + Intercom

Universal + Universal

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)
- One nurse call button and 4 multi-purpose buttons
- 4 standard I/O ports
- 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
- Colours and brightness of the buttons can be configurated

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:* 169 x 86 x 11.7	**Connections front**	*Left*: Pear push
	surface:169 x 92.1 x 29.5		*Right*: 2x I,O or I/O + Power
Mounting	2x back box	**I/O connections rear**	2x I, O or I/O + Power
	Min. depth 50mm	**Bus connection rear**	8 Pin / Header (CAN bus)
	Mounting screws at		Phoenix push in spring or
	60 / 131mm (e.g. U50)		Phoenix screw connector
Material	PC	**I/O power supply**	12 V max 250 mW
LEDs	RGB *(6 predefined colours)*	**Protection class**	IP40 (when mounted)
Buttons	5	**Approvals**	CE
Supply voltage	24 Vdc	**Product standards**	NEN-EN-IEC 60601-1:2006
Max power consumption	1530 mW (w/o peripherals)		NEN-EN-IEC 60601-1-2:2007
			NEN-IEC 60601-1-8:2007
	4840 mW (inc. 4x I/O + pear push)	**Product regulations**	93/42/EEC concerning medical devices (14 June 1993)

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