CLB C1100 Acoustic Monitoring Module [1]

CLB
TECHNOLOGY WITH CARE

The AM module provides superior Acoustic Monitoring functionality via a small elegant device. This unit will primarily be used for acoustic monitoring and talkback, and its design blends in well with most modern healthcare buildings.

PRODUCT SHEET

C1100 Acoustic Monitoring Module

Acoustic Monitoring

The C1100 AM module continuously monitors the sound level in a room and triggers an alarm when the sound level exceeds pre-determined thresholds over a designated period of time. This means staff is informed immediately when any patient is in distress without carrying out routine in-room checks. This enables better patient sleep cycles and improves the resident's privacy. In addition, more efficient deployment of staff leads to significantly improved care and cost savings.

Superior quality

The AM module provides superior acoustic monitoring capabilities which are especially suitable for keeping a close watch over elderly, people with dementia, learning disabilities or psychiatric patients. Superior audio quality provides excellent 2-way communication and faster analysis and response speeds up staff ability to take appropriate action. To help staff determine the nature of an acoustic alarm, a memory feature can be activated to replay the sound which triggered the alarm. The unit's functionality can easily be expanded with video monitoring. The AM module is mounted semi-flush over a standard (50mm) junction box. With an optional cable adapter, it can also be mounted on a wall.

Enhanced nurse call

When combining the C1100 module with a C2100 or C2200 nurse call module, an enhanced nurse call system is established: After a nurse call has been made by a client, staff is able to instantly listen in and talk back.
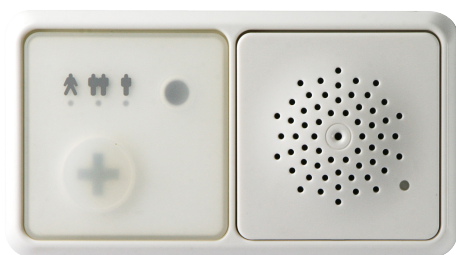
Anti-sabotage

A C1100 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 C8100 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 C1100 modules' firmware can be updated remotely after being connected to the server. After installation and configuration, the system continuously monitors all modules. When a C1100 module is disconnected, disabled or having a malfunction, a warning message is generated to alert an operator or system administrator.

Improve care by innovation

Nurse call combined with acoustic monitoring (C2100) [1]

Vandal-proof stainless steel (C1100-v)

FUNCTIONALITIES

Hardware Features
- A speaker and microphone in one unobtrusive unit
- Digital speech and audio
- Playback function (optional)
- For privacy purposes a blue LED light can indicate when the unit is active (monitoring in progress)

Software features
- Acoustic monitoring can be (de)activated per client / device
- Microphone sensitivity and speaker volume can be adjusted to client needs and in room conditions
- Audio alerts can be set to sound for any event, e.g. upon activation of acoustic monitoring
- Talk back functionality can be disabled per client / device
- Blue indication LED can be disabled per client / device
- Volume and time thresholds can be adjusted per client / device to modify the sound trigger's sensitivity

Memory function

The memory function facilitates playback of the audio event which triggered the acoustic alarm. This 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)	68 x 68 x 44	**Storage humidity (RH)**	10% - 95% NC
Housing	U50	**Connections**	2x RJ45 (CAN bus)
Material	ABS	**Protection class**	IP30 (when mounted)
LEDs	Blue	**Approvals**	CE
Buttons	None	**Product standards**	NEN-EN-IEC 60601-1:2006
Supply voltage	24 Vdc		NEN-EN-IEC 60601-1-2:2007
Power consumption	500 mW		NEN-IEC 60601-1-8:2007
Operating temperature	0 ˚C to 40 ˚C	**Product regulations**	93/42/EEC concerning medical
Operating humidity (RH)	10% - 95% NC		devices (14 June 1993)
Storage temperature	0 ˚C to 65 ˚C		

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