



CLB C2401 Medical Alarm Module 4x RJ ¹

CLB's C2401 Medical Alarm Module can connect up to four independent medical devices² to distribute alarms to mobile devices. Alternatively one of the RJ45 connectors can be used to plug in a CLB C-Series Pear Push. Continuous monitoring throughout the communication chain ensures that alarms are securely forwarded to staff.

PRODUCT SHEET

C2401 Medical Device Module

Intended use

The C2401 has been developed specifically to be used in hospitals next to a patient bed or in an intensive care unit. Supervised outputs of medical devices such as heart rate monitors or IV-pumps can be connected to the C2401. The C2401 is part of an alarm distribution system which securely forwards alarms to staff. Alarms can only be reset at the connected medical device itself to ensure an alarm cannot be mistakenly cancelled or reset remotely.

Reliable connection

The connections with connected medical devices are monitored continuously to provide staff ease of mind, knowing that they are informed in case of a connection malfunction or accidental disconnect. Intended disconnect of a medical device without raising unnecessary alarms is facilitated by a single disconnect button. By keeping the disconnect button pressed one medical device at the time can be disconnected. To disconnect a second device the button must be released first and then pressed to hold again.

Fall-back

Additionally, alarms - including technical alarms - are displayed on an over door lamp outside the ward. This also provides a fall-back scenario in case the connection to mobile devices is lost.

Universal Input variant

The C2401 is also available in a universal input variant. The C2401 NC Cure variant can connect up to four external devices with potential free contacts, such as pressure sensors and motion sensors.

Nurse call

One of the ports can be used to plug-in a P2400 Pear Push or P2480 Handset. Depending on the handset model, additional functionalities such as a service call, light control, blinds control and / or flash light are facilitated.

Class IIb medical device

The CLB Unicare2 Distributed Alarm System complies with the regulations of the medical directive 93/42/EEC (14 June 1993). Following the classification rules of this directive, the system is classified as a Class IIb medical device.

C-series: setting the new standard

C-Series modules are connected to a CLB C810x local controller. In many cases, the existing CAT5e infrastructure can be used to connect devices from different rooms. The system continuously monitors all modules. When a module is disconnected, disabled or a malfunction occurs, a warning message is generated to alert an operator or system administrator. After a simple basic training, technicians are capable of installing and replacing hardware and checking connection integrity. Moreover, the C2400 modules' firmware is automatically updated to the systems current version remotely after being connected to the server.

¹ Jung™ frame not included

² Medical devices with a potential free (NO or NC) monitored output contact.

Refer to document U1126_HW_1292_Guarded_Contact_Definition for medical contacts requirements and specifications.

MODELS

Hospital

Care environment



Medical



Auxiliary*

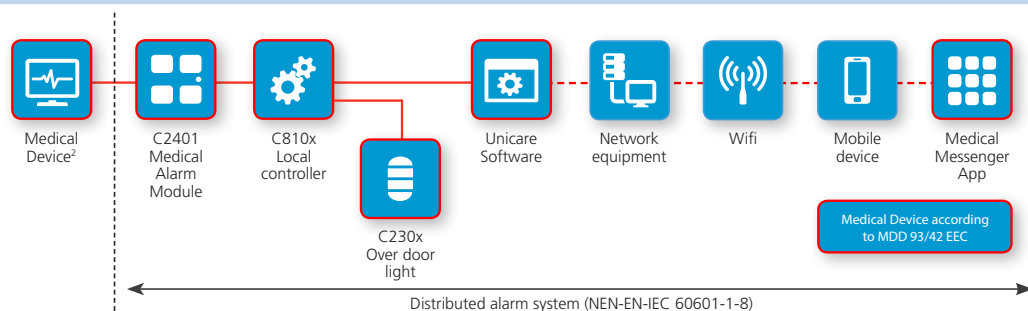


Auxiliary*

Bus-connector	8-PIN	C2401p MD	C2401p NC	C2402p NC
Bus-connector	RJ45	C2401 MD	C2401 NC	N/A

*Do not use for connecting medical devices

DISTRIBUTED ALARM SYSTEM



RELATED PRODUCTS



Handset

The C2401 can connect one P240x patient handset which can be used to make nurse calls. The P240x is available in multiple variants.

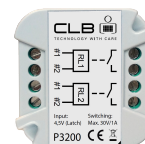
Assembly

The C2401 4xRJ module fits perfectly in single or multiple Jung™ frames¹. As such, the C2401 can be easily combined with CLB's matching nurse call modules C2100 and C2200.



Latching relay

The P2300 latching relay controls up to two different lights (i.e. bed head light and reading light) based on CLB's pear push light buttons.



TECHNICAL SPECIFICATIONS

Inputs	Up to 4 potential free (NO or NC) monitored output contacts ² or up to 3 contacts when a pear push is plugged in		
Buttons	1 for intended disconnect of medical devices		
Dimensions (mm)	68 x 68 x 46	Material	ABS
Housing	Back box (85mm) with minimum depth of 50mm	Protection class	IP40 (when mounted)
Supply voltage	24 Vdc	Approvals	CE
Power consumption	240 mW	Product standards	NEN-EN-IEC 60601-1:2006 NEN-EN-IEC 60601-1-2:2007
Rear connections	2x Phoenix screw (relays) 1x Phoenix PIN (8) (CAN-bus) 2x 4RJ (CAN-bus)	Product regulations	NEN-IEC 60601-1-8:2007 MDD 93/42/EEC (14 June 1993)

Document ID C2401-1709 | Subject to change without prior notice

www.clb.nl

© CLB bv 1483 GE 24, De Rijp, The Netherlands