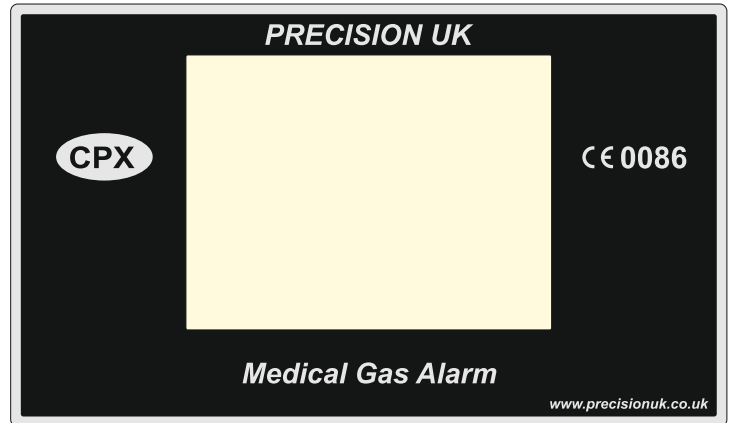


Technical Specification

Touchscreen Area Alarm Panel



Product Description

Area alarm panel for up to 6 gases
220-240V, 50-60Hz, single phase, 3 Amp supply.
89/336 The EMC Directive, 73/23 The Low Voltage Directive.
Complies with HTM02-01 and BS737-3

Product Description

CPX-DA Area Alarm Panel – (6 gases) PRECISION UK CPX

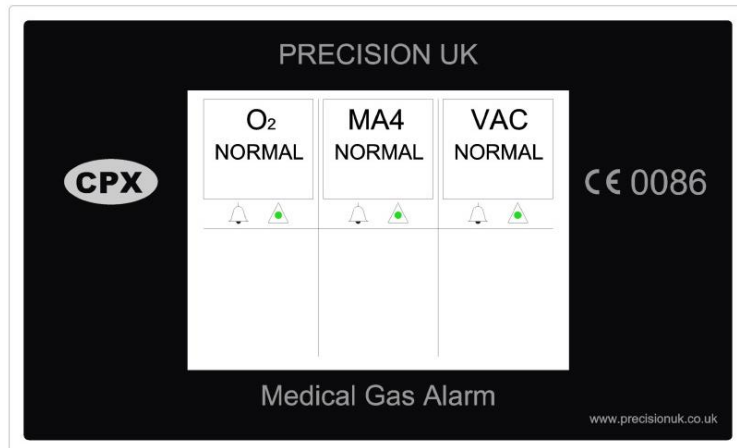
The CPX-DA alarm panel complies and fully meets with the latest standard HTM02-01 and C11, the unit shall duly be CE marked with the CE number, and a copy of the CE certificate from the notified body shall be submitted. A certificate of origin will also be provided with the alarm unit.

The CPX-DA area alarm panel is designed to be used to monitor the pipeline pressure within a theatres, intensive care units, private rooms, wards etc. The pressure is monitored by pressure switches in the pipeline downstream from the last AVSU. Pressure is monitored for both high and low pressure (low only for vacuum). The integrity of the cabling between the pressure switches and the alarm panel is monitored, and a fault on this cable would result in a system fault alarm, with all affected alarm conditions going into alarm conditions. The monitoring of the cable requires a termination box to be mounted as close as practical to the pressure switches. To use more than one CPX-DA alarm panel with one set of pressure switches, simply connect all CPX-DA alarm panels to the 22 core cable (minimum 0.5mm) from the termination box (either from the termination box itself or at another CPX-DA alarm panel).

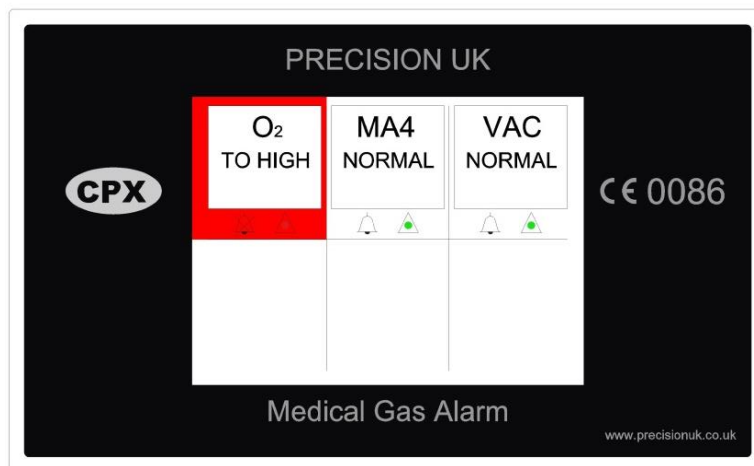


Indication

The CPX-DA alarm unit provides indication of 3 conditions of gas, normal pressure, high pressure and low pressure. (For medical vacuum only normal and low vacuum are provided) for up to 6 gas services. Each service has a green normal, red high pressure and red low pressure indication, vacuum service a green normal and red low pressure indication are provided.



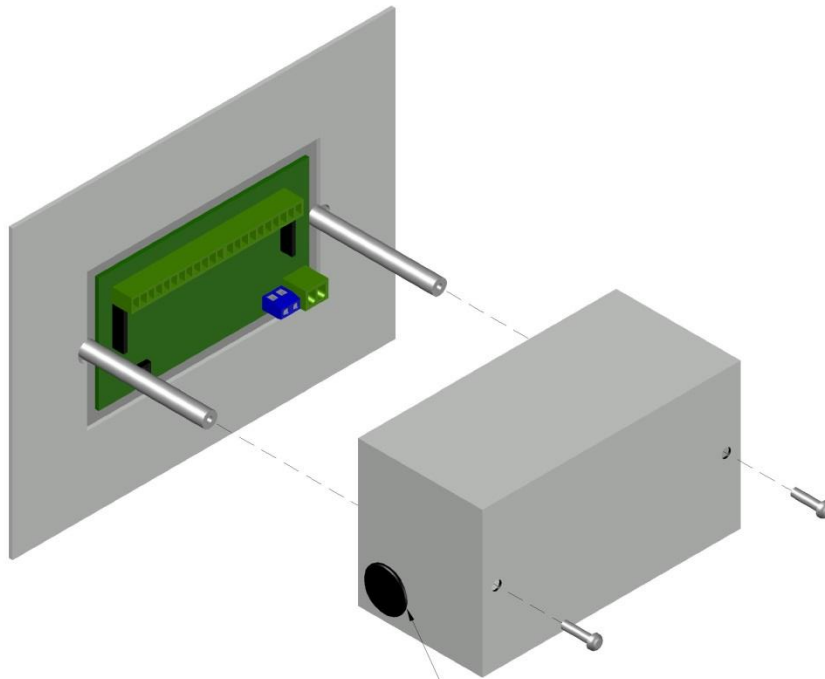
The panel also has a mutable audible alarm. The mute is operated by pressing and holding the bell symbol for 3 seconds. Operating the mute will silence the audible alarm. The alarm conditions will remain and the audible alarm will re-trigger after 15 minutes.



Operation

When a pressure switch opens due to high or low pressure, the appropriate lamp will flash and the audible alarm will sound. Operating the mute by pressing and holding the bell symbol on the alarm condition for 3 seconds will silence the audible alarm. The alarm conditions will remain and the audible alarm will re-trigger after 15 minutes. If the alarm

condition will be present for an extended period the alarm condition can be permanently muted as follows.



20mm Closed Grommet
to Allow Access to Menu Button.

Remove the closed grommet on the side of the alarm to allow access to the menu button. Enter the configuration menu by pressing the menu button at the back of the CPX-DA while the alarm condition is present. Press and hold the bell symbol in the bottom right hand corner of the configuration screen for 3 seconds. This will disable the alarm permanently.

Warning

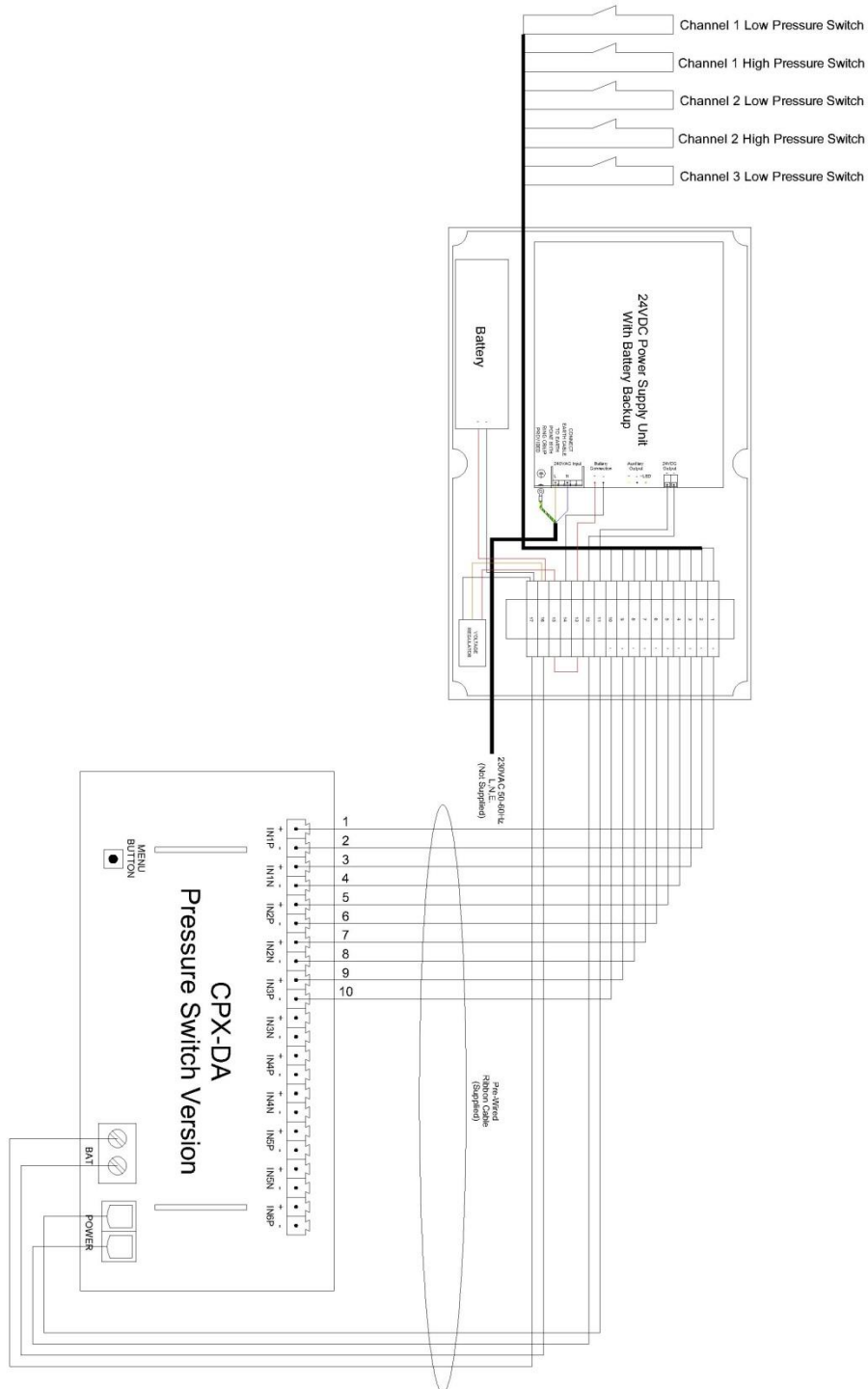


BELL SYMBOL – when the bell symbol in the configuration menu is as shown this indicates the sound is switched off for every channel.

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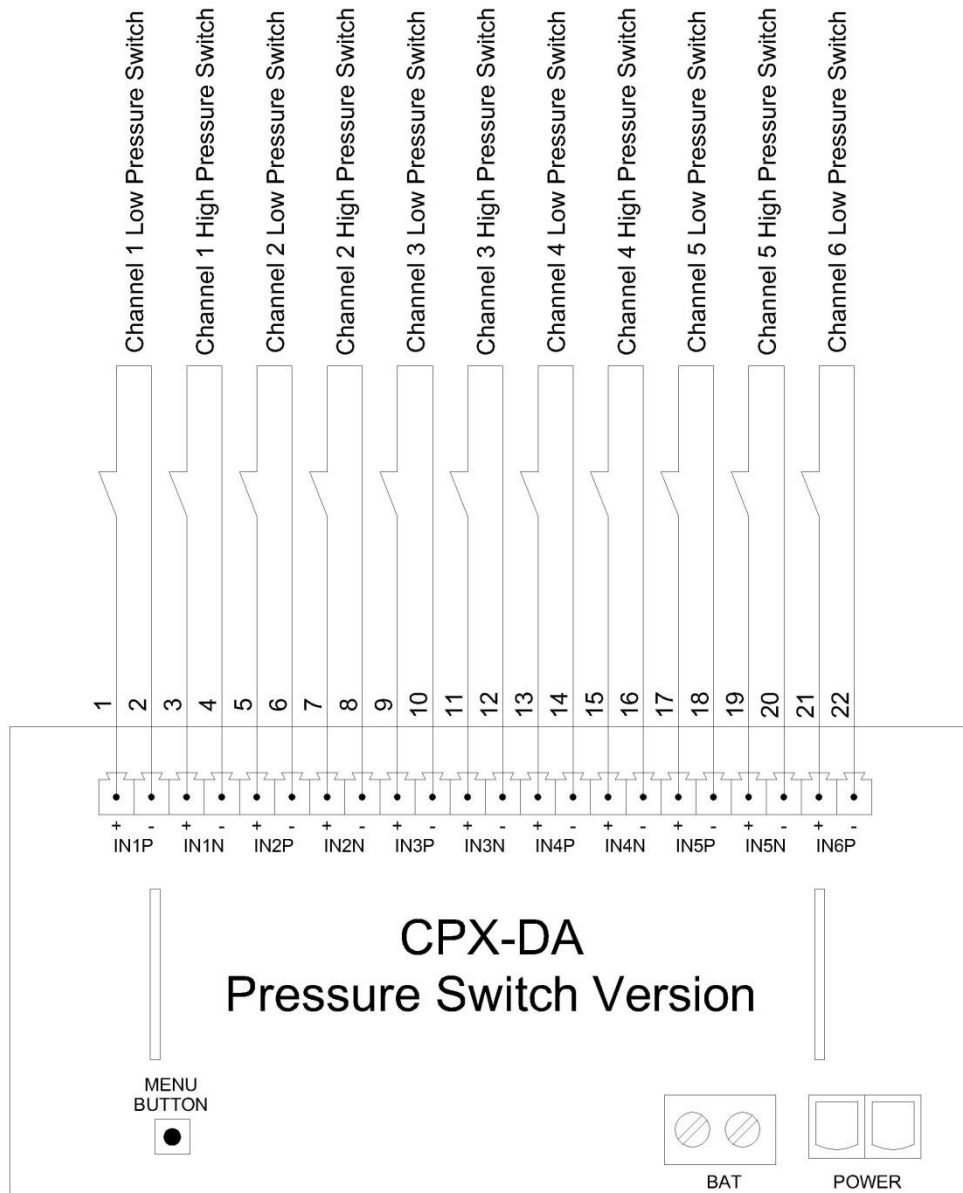
Electrical Connection.

To connect the power CPX-DA alarm to the following diagram. (3 Gas version shown)



In the event of power failure, the battery will run the alarm.

Pressure switch connection



Installation requirements

A 230 vac supply, fused at 3 amps, fed from the essential supply.



Transducer Module

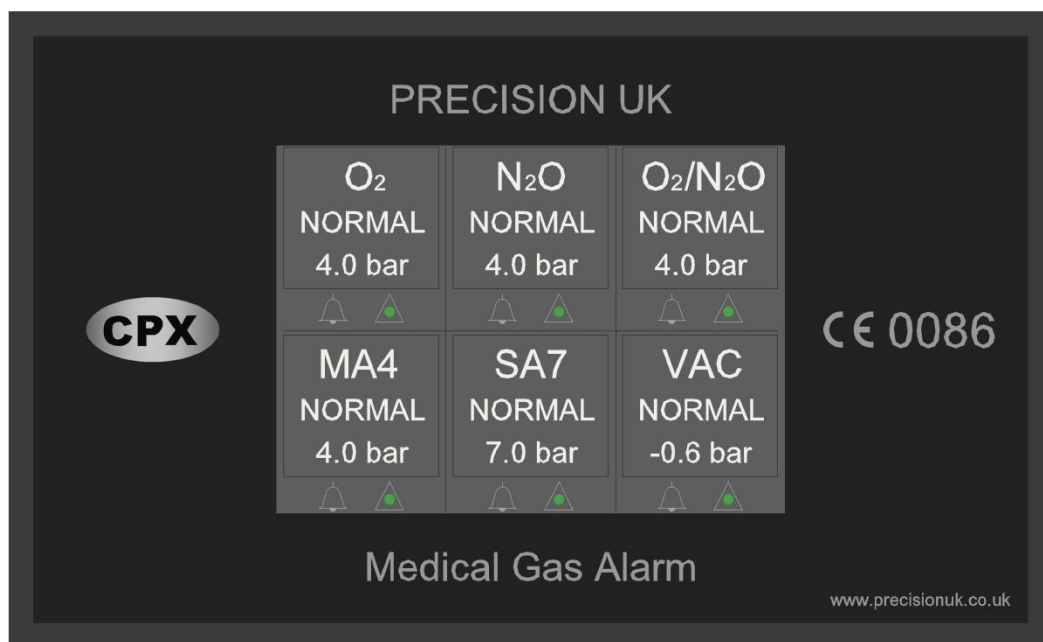
In addition to the pressure switch version of the CPX-DA alarm, the alarm can be supplied with an optional module to be used with pressure transducer operating in a 4-20mA standard extends the capacity of the CPX-DA alarm with the following features:

- Real-time indication of pressure level of measured gases,
- Adjustable set points triggering the alarm over the entire measurement range,
- Monitoring the status and gas pressure in the BMS system through an RS485 interface.

The transducer module plugs directly into the CPX-DA Alarm PCB to allow for ease of upgrade.

Indication

The CPX-DA alarm unit provides indication of 3 conditions of gas, normal pressure, high pressure and low pressure. (For medical vacuum only normal and low vacuum are provided) for up to 6 gas services. Each service has a green normal, red high pressure and red low pressure indication, vacuum service a green normal and red low pressure indication are provided. The display also indicates real-time indication of the pressure level of the measured gas. The pressure set points triggering the alarm can be set over the entire measurement range (0 to 10 Bar for O₂, N₂O, O₂/N₂O, MA4, SA7, CO₂ and 0 to -1 Bar VAC).



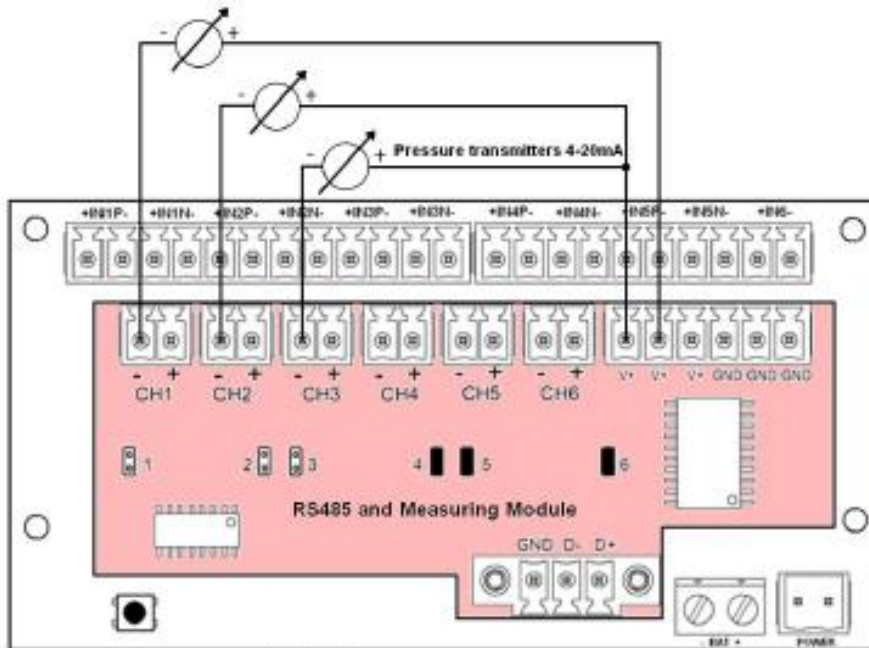
The panel also has a mutable audible alarm. The mute is operated the same way as the pressure switch version by pressing and holding the bell symbol for 3 seconds.



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The configuration menu is accessed the same way as the pressure switch model but the menu will allow the engineer to set the alarm trigger pressure from the transducer outputs. The CPX-DA transducer module also provides the user with an RS485 interface for communication with the hospital BMS (Building Management System.) This will provide the real time pressure readings of the measured gas to the BMS.

Transducer connection



Connection to BMS

