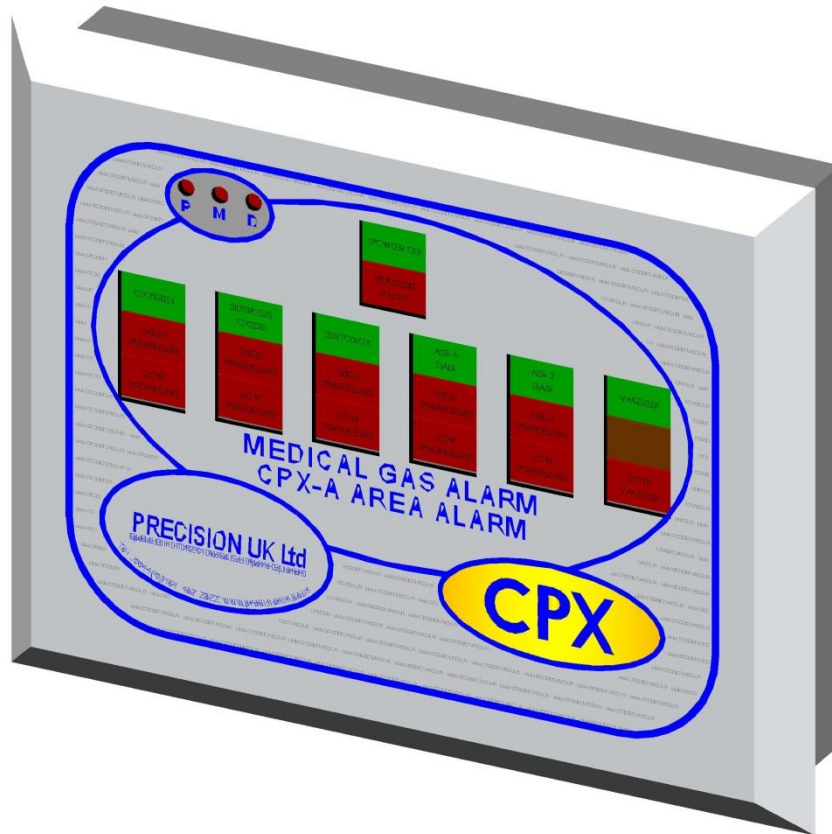


**Technical Specification**

**Area Alarm Panel**



**Product Description**

Area alarm panel for up to 6 gases  
220-240V, 50-60Hz, single phase, 3 Amp supply.  
MEDCON Data protocol  
89/336 The EMC Directive, 73/23 The Low Voltage Directive.  
Complies with HTM2022 and BS737-3

**Product Description**

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

The CPX-A alarm panel complies and fully meets with the latest standard HTM2022 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-A 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



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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-A alarm panel with one set of pressure switches, simply connect all CPX-A alarm panels to the 3 core screened cable (minimum 0.5mm) from the termination box (either from the termination box itself or at another CPX-A alarm panel).

### Indication

The CPX-A 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 lamps, vacuum service a green normal and red low pressure lamps are provided. The panel also has a green power on lamp and a red system fault lamp, together with a mutable audible alarm. Operating the mute push button will silence the audible alarm. The alarm conditions will remain and the audible alarm will re-trigger after 15 minutes.

In addition the CPX-A alarm panel has 3 LED indicators marked P, M & D on the front of the panel which indicate the following.

The P LED represents pressure switch inputs.

If the LED is off the panel has not been set up to detect pressure switch inputs via the end of line transmitter board. (This can be overcome on the jumper settings)

If the LED is flashing the panel has been set up to receive pressure switch inputs but has not been connected (or connected in error) to the end line transmitter board.

If the LED is on, this indicates the CPX-A panel and the transmitter board are set up and communicating properly.

The M LED represents use with MEDCON protocol (as with CPX-P system).

If the LED is off the panel has not been set up to work with the CPX-P system and no plug in upgrade card has been installed.

If the LED is flashing, the plug in card has been installed to enable use with the CPX-P system, but the 2 core buss used for such systems has not been connected (or connected in error).

If the LED is on, this indicates the CPX-A panel is working in conjunction with the CPX-P network and is capable of transmitting the local alarm conditions to the CPX-P system.

The D LED is reserved for units with the main FPGA IC programmed to D type. The LED is either on or off and is designed to show at a glance whether the unit incorporates the D type without having to open each unit up.

The purpose of the chip is to enable 2no 3 gas panels to provide status to 1 no 6 gas central unit using standard boards and cabling (or indeed 2no 2 gas boards providing status to a 4 gas unit).

The CPX-A alarm can transmit data using MEDCON data protocol for display on the CPX-P alarm system. Data can also be received from the CPX-P system.



**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 push button 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. Remove the cover while the alarm condition is present. Operate the lockout button. Replace the cover. You can check which alarm conditions are locked out by pressing the mute/test button. Any alarm condition which is locked out will not flash. Any other condition will flash. A system fault cannot be locked out.

In the event of power failure, the internal battery will run the alarm. To conserve power, the lamp current is reduced resulting in a drop of brightness. The audible will sound and the system fault lamp will flash. If the mains power is off for a prolonged period and the audible is not muted, all lamps will go out to conserve power. When the audible is muted or the mains power is re-instated, the lamps will return to normal operation.

**Installation requirements**

A 230 vac supply, fused at 3 amps, fed from the essential supply.  
3 core screened cable (minimum 0.5mm) from the alarm panel to the termination board.  
Termination boxes.

Flush Mounting Cutout Details

