

AREA ALARM UNIT

DESCRIPTION

The CPX-A area alarm is used to monitor pipeline pressure within a ward, theatre 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 will result in a system fault alarm, with all affected alarm conditions going into alarm condition.

Simple connection: Just 3 cores connect the alarm to the end of line components, regardless of the number of gases.

Simple maintenance: All connections (including mains) are plug & socket. The alarm components can be changed in about 1.5 minutes.

Versatile: Several CPX-A alarms can be connected to the same end of line components using just 3 cores. The CPX-A can transmit either a common alarm or all alarm conditions, using the MEDCON data protocol, for display on the CPX-P plant alarm system, and can also receive data from the CPX-P system.

2 year warranty: No parts or labour charges for repairs to alarms which fail due to faulty parts or manufacture.

10 year compatibility warranty: Install the CPX-A with the confidence that equipment will be available to modify or extend the system for at least 10 years.

All alarms are manufactured under BS EN 13485 Medical Devices: Quality Management Systems and comply to HTM02-01, BS EN 7396 and BS EN 4754.



CPX Area Alarm	
Product Code	Description
CPX-A-1	CPX Area Alarm 1 Service
CPX-A-2	CPX Area Alarm 2 Service
CPX-A-3	CPX Area Alarm 3 Service
CPX-A-4	CPX Area Alarm 4 Service
CPX-A-5	CPX Area Alarm 5 Service
CPX-A-6	CPX Area Alarm 6 Service
CPX Central Alarm	
Product Code	Description
CPX-P-1	CPX Central Alarm 1 Service
CPX-P-2	CPX Central Alarm 2 Service
CPX-P-3	CPX Central Alarm 3 Service
CPX-P-4	CPX Central Alarm 4 Service
CPX-P-5	CPX Central Alarm 5 Service
Internal Transmitters	
Product Code	Description
CPX-P-I1	CPX Internal Transmitter 1 Service
CPX-P-I2	CPX Internal Transmitter 2 Service
CPX-P-I3	CPX Internal Transmitter 3 Service
CPX-P-I4	CPX Internal Transmitter 4 Service
Remote Transmitters	
Product Code	Description
CPX-P-R1	CPX Remote Transmitter 1 Service
CPX-P-R2	CPX Remote Transmitter 2 Service
CPX-P-R3	CPX Remote Transmitter 3 Service
CPX-P-R4	CPX Remote Transmitter 4 Service



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The monitoring of the cable requires a termination box to be mounted as close as practical to the pressure switches. As an optional extra, these termination boxes can be supplied with the cables for connection to the pressure switches already fitted, allowing significant savings in on-site work.

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 at the termination box itself, or at another CPX-A).

EXTERNAL INDICATORS:-

CPX-A has 3 LED indicators marked P, M & D on the front 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 setting shown in our manual).

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

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

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

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

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

If the LED is on, this indicates that the CPX-A panel is working in conjunction with the CPX-P network and is capable of transmitting the local alarm conditions onto 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 a unit incorporates the D type chip without having to open each unit up.

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

INSTALLATION REQUIREMENTS:

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

A 3 core screened cable (minimum 0.5mm) from the alarm panel to the termination board.

MODULAR AVSU'S:

Also available incorporating Area Alarm and Pressure Switches.

