

Submittal Data Sheet

Features

The Powerex Master Alarm Panel monitors and displays normal and alarm conditions from up to 64 remote medical gas source signals. Pressure switches and DISS union check valve connectors are sold separately.

- Complies with NFPA 99. Made in the USA.
- Self-contained unit – designed for ease of installation and service.
- MCP circuit board available for interface to building management system.
- Microprocessor controlled.
- Self-diagnostic and error message display for ease of maintenance.
- Audio and visual alarm indicators.
- Bright easy to read L.E.D. displays – clearly visible in both day and night lighting conditions.
- Visual (green) indication of normal condition.
- Constant display and monitoring of each source alarm signal.
- Individual user programmable remote signal alarm points (NC, NO or disabled).
- Dry contacts for remote monitoring of all alarm conditions.
- Alarm history display of previous alarm conditions.
- Hinged frame with lanyards for easy accessibility.
- Three year PC board warranty.
- Real time main line gas pressure readout modules available.

Specification

The Master Alarm Panel shall be the Powerex Master Alarm Panel. The panel shall be microprocessor controlled and designed to comply with NFPA 99. The panel shall be 100% digital and shall not require re-calibration. The panel shall be able to interface with building management systems with the use of an MCP circuit board. The master alarm panel shall be compatible with the T-Net PC based medical gas information management system. The alarm panel shall be enclosed in a steel box and shall be designed to accept an electrical input range of 120-240 volts AC – 50-60 hertz. The source voltage shall be stepped down with a self-contained transformer. The panel shall contain audible and visual alarm indicators. The audible alarm may be silenced by pressing the alarm silence button, but the visual alarm indicator can only be cancelled by fault correction. The alarm shall detect and filter out transient



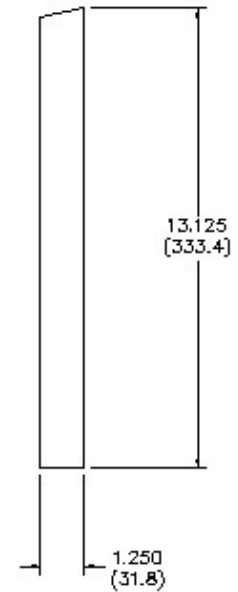
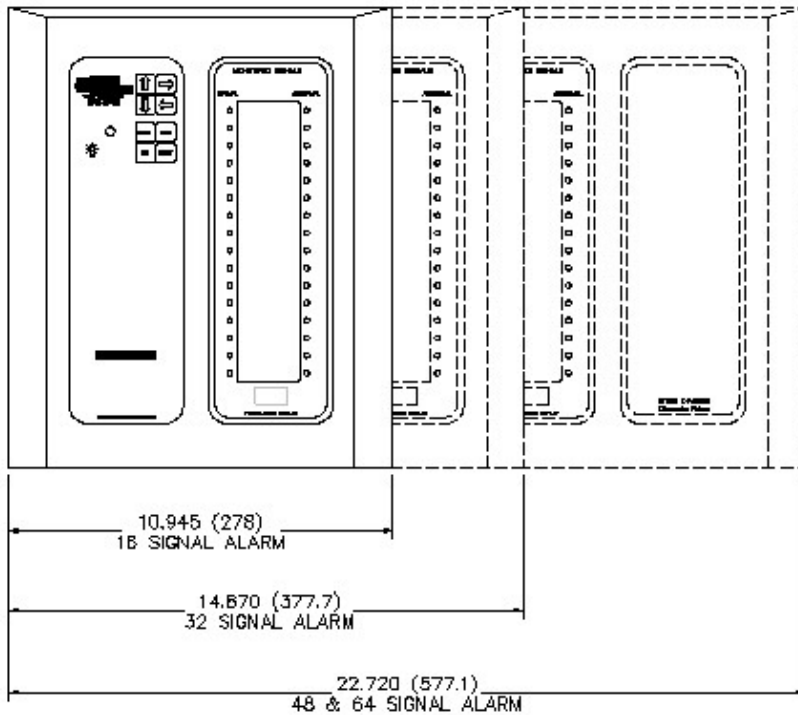
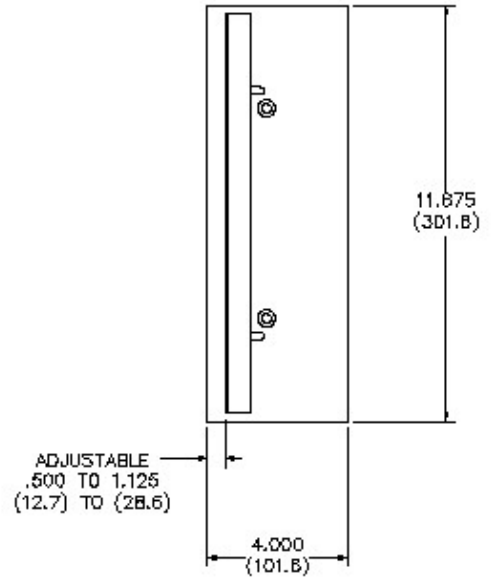
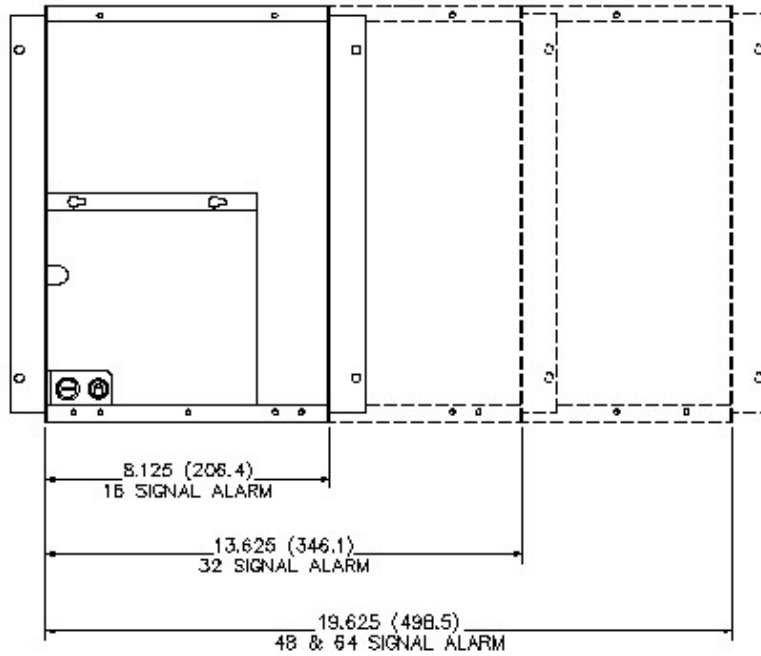
Master alarm shown above is 16 signals – part # PX-DU16

signals (less than 0.6 seconds). The alarm shall be capable of displaying alarm history for all possible alarm conditions.

Each source signal module shall monitor 16 signals. The alarm shall be capable of monitoring and displaying up to 64 medical gas source signals in increments of 16 source signals. The alarm is modular and may be initially installed as a smaller unit (i.e. 16 signals) and later expanded to (i.e. 32 signals).

In addition, each 16 signal Master Alarm Module shall incorporate the following features:

- Individual user programmable remote signal alarm points to accept NO or NC signals, or may be disabled. Factory preset to accept Normally Closed signals.
- LED indicators (Green) confirms normal status, (Red) indicates abnormal condition.
- Each signal easily labeled and positioned to suit any requirement using self adhesive labels provided with the alarm.
- A set of dry contacts with relay to trigger an optional remote alarm in the event of an alarm condition.



Ordering Information

PX – D



Label Colors

- U = USA
- C = Canada

Area Alarm Gas Services

- O = Oxygen
- V = Medical Vacuum
- A = Medical Air
- N = Nitrous Oxide
- T = Nitrogen
- C = Carbon Dioxide
- W = WAGD/EVAC
- S = AGSS
- H = Hyperbaric Oxygen
- U = Utility Air
- L = Helium
- I = Instrument Air (USA)
Surgical Air (Canada)
- D = Carbon Dioxide 80psig
- M = Gas Mixtures 50psig
- P = Gas Mixtures high
pressure 180psig
- R = Tri-Gas
- F = Future Gas

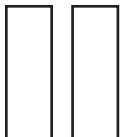
Master Remote Signals

- 16 = 16 points
- 32 = 32 points
- 48 = 48 points
- 64 = 64 points


**Blank Slot for
Future Expansion**

- B = Blank Slot


Examples



PX-DU16 = 16 signal Master Alarm, USA colors, 2 slot box
 PX-DUOV B = 2 gas Area Alarm – Oxygen, Medical Vacuum, Blank slot, USA colors, 2 slot box
 PX-DUOF B = 1 gas Area Alarm – Oxygen, Future Gas, Blank slot, USA colors, 2 slot box
 PX-DUOVANT = 5 Gas Area Alarm – Oxygen, Medical Vacuum, Medical Air, Nitrous Oxide, Nitrogen, Blank slot, USA colors, 2 slot box



PX-DCOV16B = 2 Gas Area Alarm – Oxygen, Medical Vacuum, 16 signal Master Alarm, Blank slot, USA colors, 3 slot box
 PX-DU32 = 32 signal Master Alarm, USA colors, 3 slot box
 PX-DUOVANTB = 5 Gas Area Alarm – Oxygen, Medical Vacuum, Medical Air, Nitrous Oxide, Nitrogen, Blank slot, USA colors, 3 slot box
 PX-DUOVANTCWMB = 8 Gas Area Alarm – Oxygen, Medical Vacuum, Medical Air, Nitrous Oxide, Nitrogen, Carbon Dioxide, WAGD, Gas Mixture, Blank slot, USA colors, 3 slot box

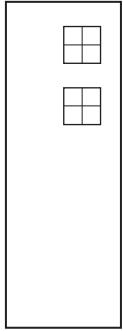


PX-DU64 = 64 signal Master Alarm, USA colors, 5 slot box
 PX-DUOVAB32 = 3 Gas Area Alarm – Oxygen, Medical Vacuum, Medical Air, Blank slot, 32 signal Master Alarm, USA colors, 5 slot box
 PX-DUOVANTCTWU32 = 8 Gas Area Alarm – Oxygen, Medical Vacuum, Medical Air, Nitrous Oxide, Nitrogen, Carbon Dioxide, WAGD, Utility Air, 32 signal Master Alarm, USA colors, 5 slot box

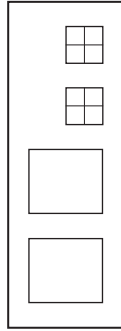
*Note – Medical Gas Alarms come in one of the three configurations shown above - 2 slots, 3 slots, or 5 slots.

See next page for standard alarm configuration example drawings

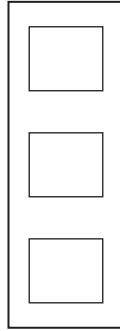
Ordering Information



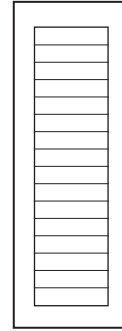
Logic Module with Buzzer



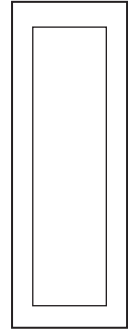
Logic Module with Buzzer & 2 Gas (Area Alarm Modules)



Area Alarm Module (Choose 3 letters from chart below – one for each gas service)



Master Alarm Module 16 Signals per Module



Blank Module


Part Number
 PX-DU = USA (NFPA)
 PX-DC = Canada (NFPA)


Area Alarm Gas Services
 A = Medical Air
 C = Carbon Dioxide
 E = EVAC/WAGD
 F = Future
 H = Hyperbaric Oxygen
 N = Nitrous Oxide
 O = Oxygen
 T = Nitrogen
 U = Utility Air
 V = Medical Vacuum


Part Number
 16 = One 16-signal module
 32 = Two 16-signal modules
 48 = Three 16-signal modules
 64 = Four 16-signal modules

Part Number
 B = Blank Module

Examples


 PX-DU16 = 16 signal Master Alarm
 PX-DUOV B = 2 gas Area Alarm – Oxygen, Medical Vacuum, Blank slot
 PX-DUOF B = 1 gas Area Alarm – Oxygen, Future, Blank slot


 PX-DUOV16 B = 2 Gas Area Alarm – Oxygen, Medical Vacuum, 16 signal Master Alarm, Blank slot
 PX-DU32 = 32 signal Master Alarm
 PX-DUOVANT B = 5 Gas Area Alarm – Oxygen, Medical Vacuum, Medical Air, Nitrous Oxide, Nitrogen, Blank slot


 PX-DU64 = 64 signal Master Alarm, USA colors, 5 slot box
 PX-DUOVAB32 = 3 Gas Area Alarm – Oxygen, Medical Vacuum, Medical Air, Blank slot, 32 signal Master Alarm
 PX-DUOVANCTEU32 = 8 Gas Area Alarm – Oxygen, Medical Vacuum, Medical Air, Nitrous Oxide, Nitrogen, Carbon Dioxide, EVAC, Utility Air, 32 signal Master Alarm