

PRO-2000 X2 Panels



Features

- Up to 1200 local detection/control devices
- Up to 5000 networked detection/control devices
- Integrated gas detection
- Agent releasing service
- Support for 2-wire addressable devices
- Support for conventional 2-wire initiating devices
- Support for notification circuits
- Support for multi-panel networking
- Battery backed-up real time clock and event log
- Independent ground fault detection circuits on each interface card for easy ground fault tracking
- Wall mount enclosure equivalent to NEMA 2

Description

The PRO-2000 X2 panels are microprocessor-based fire alarm control units, suitable for small to medium fire detection and suppression applications. Larger applications can be covered using additional panels in a master/slave network configuration.

There are three types of X2 panels available: the X2S, the X2E and the X2M.

The X2S panel is the standard model. It has a 2 line by 40 character display, with associated controls and indicators. It also has 24 programmable indicators and 12 programmable pushbuttons.

The X2E panel has the same features as the X2S plus 48 additional programmable indicators and 24 additional programmable pushbuttons.

The X2M panel has the same features as the X2S plus a geographic mimic panel containing up to 144 indicators. The geographic mimic also supports 72 pushbuttons for special applications. The geographic mimic provides a graphical representation of the protected areas. When new events are displayed on the LCD, their location can be identified rapidly via the appropriate indicators on the geographic mimic.

The following types of devices are supported by the X2 panels:

Addressable devices:

- Smoke detectors, heat detectors, monitor modules and control modules

Conventional initiating devices:

- Non-shorting detectors (Heat detectors, smoke detectors, etc.)
- Shorting devices (Pull-stations, Abort pushbuttons)

Conventional notification devices:

- Unsupervised NO or NC relay output
- Supervised and powered relay output

The X2 panels support communication and networking functions and can be configured to communicate to several RS-232 devices such as printers or PLC's. Similarly, the X2 panels can be connected in a network configuration with several X2 panels communicating together in a master/slave setup. In the master/slave configuration, all the events detected by slave panels are reported to the master panel.



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The X2 panels can also be networked with X6 panels and X0 panels. The X6 panels can be connected on the network as a master or slave panel. The X0 panels can only be connected to a master or slave panel as repeater panels.

There are two types of supported networks: master/slave networks and repeater networks.

The X2 panels can support communication to one RS-232 link and to a maximum of two networks (master/slave or repeater) by using small communication modules. For enhanced networking capabilities, a communication interface card can be added to the system.

The X2 panels can be configured to support up to 2 interface cards. The interface cards can be any of the following:

- Addressable detector interface card (Smoke/heat detectors, monitor modules, control modules)
- Supervised input card (Conventional detector, shorting and non-shorting devices)
- Supervised relay card (Supervised outputs and dry contacts)
- Communication card (Networked configurations)

All the events occurring on the X2 panels (alarms, troubles, etc.) are communicated to the user using a 2-line by 40-character Liquid Crystal Display (LCD). There are four control sections associated with the LCD:

the acknowledgment section, the Display section, the System section and the user defined section.

The acknowledgment section consists of an access control key, an "Acknowledge" button, a "Reset" button and several associated indicators.

The access control key prevents unauthorized access to the system, acknowledgment and reset functions. When the control key is not present, only the display section remains enabled.

The "Acknowledge" button is used to acknowledge the currently displayed event has been observed. The "Reset" button is used to reset events which were previously acknowledged.

The Display section gives the user an easy way to access the system's display lists: Alarm, Supervisory, Trouble, Status, Isolate and Service.

The System section is used mainly for maintenance activities and is used to access various functions of the X2 panel. The Service and Isolate mode as well as the one man walk test mode may be accessed through the System section's menu.

The user defined section consists of a group of configurable indicators and buttons. There are 24 indicators and 12 buttons. Special functions such as fan control or pump control can be assigned to the configurable indicators and buttons.

Technical Specifications

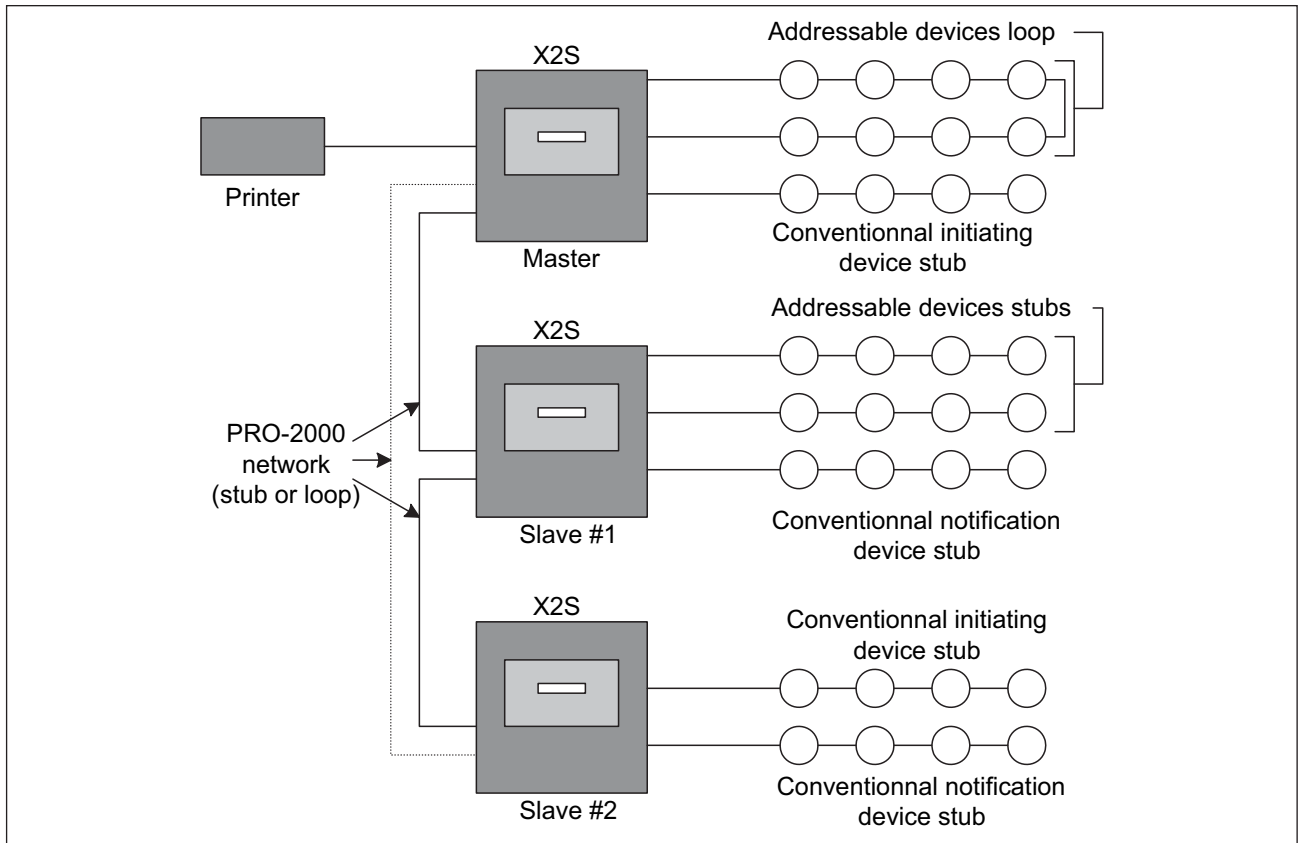
Electrical Specifications

Primary AC Power Supply	
Voltage	115 or 220 VAC
Frequency	50 or 60 Hz
Maximum power	125 Watts
Master Alarm and Trouble Relays	
Contact rating	2 A @30 VDC 0.5 A @125 VAC
Communication Modules	
Number of sockets for communication modules	2
Interface Cards	
Number of connectors for expansion cards	2

Physical Specifications

X2S Panel
24"H x 24"W x 7"D (610mm x 610mm x 178mm)
X2E Panel
30"H x 24"W x 7"D (762mm x 610mm x 178mm)
X2M Panel
41"H x 24"W x 7"D (1041mm x 610mm x 178mm)

Typical Application Diagram



X2 Panel Block Diagram

