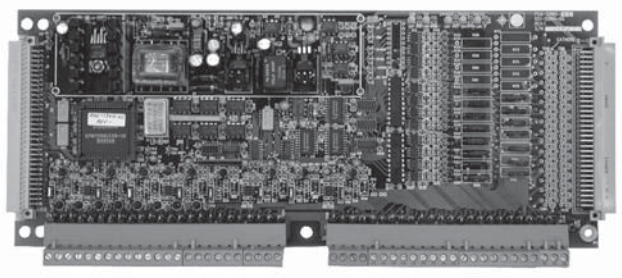
PRO-2000
24/32 Zone Supervised Input Card



Description

The Supervised Input Card supports connection of up to 32 initiating circuit inputs. It can be hooked up to any of the PRO-2000 Series panels. Each NFPA style B initiating circuit input is suitable to be used for waterflow, supervisory, conventional detectors and manual devices. A total of up to 20 conventional detectors can be connected on the same initiating circuit input. This allows for a maximum of 640 functional detectors to be connected and monitored by a single Supervised Input Card.

All input circuits have full transient protection to prevent damage to the card in the event that a field power surge should occur. The field interface electronics of the card are fully isolated from system electronics thus insuring an exceptional electrical immunity.

The built-in ground fault detection circuit is designed to pinpoint a ground fault source at the board level, unlike other systems that give a global system level ground fault. This makes it easier to identify the faulty wiring/ circuit. A high efficiency power supply insures a lower power consumption.

Precision analog-to-digital converters are used to read the status of the initiating devices. Software processing then analyses these readings. This increased flexibility allows for multiple configurations and devices, and also insures a better compatibility with future devices.

Two versions of the Supervised Input Card are available; a 24-zone and a 32-zone model.

The 24-zone model allows for up to 24 initiating circuits through two (2) removable "Combicon" terminal blocks. The unit features on-board transient protection.

Features

- Up to 32 initiating circuits
- Up to 20 conventional detectors per initiating circuit
- Suitable for interfacing with waterflow, supervisory, detectors and manual devices
- Fuseless initiating circuits with individual supervision and power limiting
- Full transient protection on all initiating circuits
- Field interface electronics fully isolated from system electronics for increased electrical noise immunity
- Built-in local ground fault detection for easier maintenance and troubleshooting
- Built-in isolated switching power supply for increased power efficiency
- Software based processing for easy configuration and upgradability
- Built-in self-diagnostic for increased reliability
- Surface mount technology
- Removable connectors for easy servicing
- Multiple device support through flexible software configuration

Specifications

Electrical Specifications			
Line short circuit per channel		22 mA	
Line supervision current per channel		3 mA	
Line resistance		50 ohm. max.	
End-of-line resistor value		6.8 K	
Line standby voltage		18 - 25 VDC	
Card current consumption (excluding field devices)		281 mA @ 24 VDC	
Max. total detector standby current		Application specific	
Physical Specifications			
Length	11.9" (302.3 mm)	Thickness	1" (25.4 mm)
Width	4.88" (124 mm)	Weight	14.1oz (400g)

S7010 S7010 USCG 161.002/41/1 ABS 05-MO602743-X CCG Accepted

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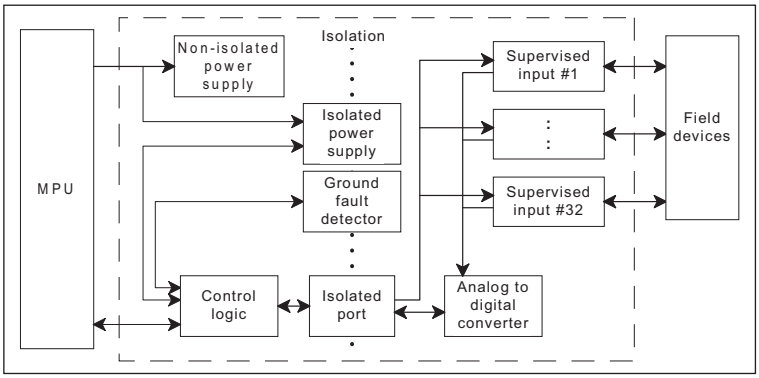
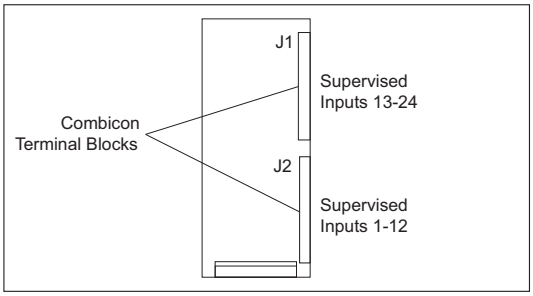
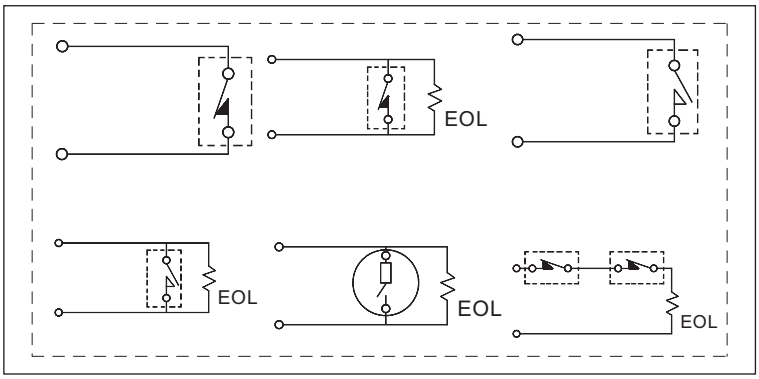
Block Diagram



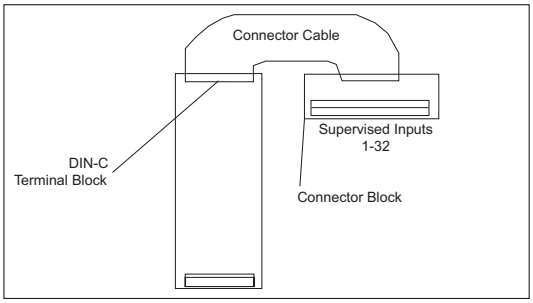
24-Zone Supervised Input Card



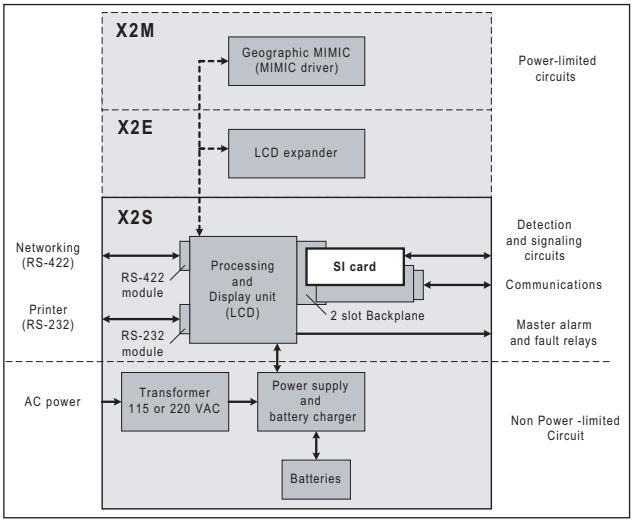
Supported Initiating Circuit Configurations



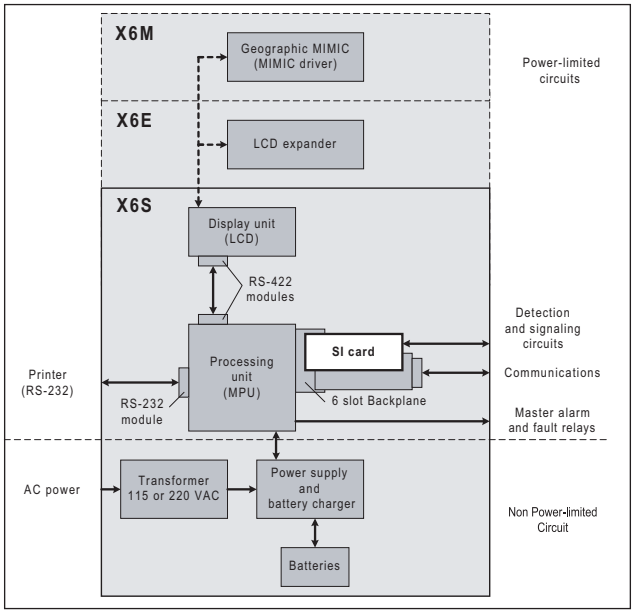
32-Zone Supervised Input Card



24/32 SICard Connected to an X2 Panel



24/32 SI Card Connected to an X6 Panel



Ordering Information

Model Number	Description
PCA-12895-00	PRO-2000 24-Zone Supervised Input Card, UL/ULC
PCA-12895-02	PRO-2000 24-Zone Supervised Input Card, Marine
PCA-12895-01	PRO-2000 32-Zone Supervised Input Card, UL/ULC
PCA-12895-03	PRO-2000 32-Zone Supervised Input Card, Marine
PCA-14308-00	PRO-2000 Connection Board for 32-Zone Input Card, UL/ULC
PCA-14308-01	PRO-2000 Connection Board for 32-Zone Input Card, Marine