

SRP-4x4 Fire Alarm/Releasing Control Panel



Features

- Four zone fire alarm control and release panel
- Initiating circuits capable of Class A (Style D) or Class B (Style B) Service
- 5,000 ft. (1,524m) of Protectowire per zone
- Field selectable input and output configurations
- Ground fault detection
- Four Class B (Style Y) output circuits
- Protectowire Alarm Point Location Meter available

Description

The Model SRP-4x4 is a UL listed and FM approved, Fire Alarm/Releasing Control Panel. Primarily designed for use as a releasing panel for Pre-action and Deluge water-based extinguishing systems, it may also be used as a stand alone Fire Alarm Control Panel and is ideally suited for many commercial and light industrial applications.

The unit consists of a single multifunction control board for flexibility in adapting to individual job requirements. Field selectable input and output configurations, detection circuits capable of Class A (Style D) or Class B (Style B) service, battery charger/monitor, and ground fault detection are standard features of the control panel. The versatile single board configuration eliminates custom assembly of multiple modules thus ensuring a streamlined system.

System Design Features

The SRP-4x4 is a four zone control panel designed for use with Protectowire Linear Heat Detector, two wire smoke and heat detectors, flame detectors and direct shorting devices such as manual pull stations and water flow switches. The panel is UL listed and FM approved for automatic release service.

The unit comes completely assembled in a surface mounted enclosure. The traditional red textured finish resists scratches and the durable, heavy-gauge steel cabinet has a piano hinged door allowing for greater rigidity to prevent sagging.

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FireSystems

Configuration: The control panel provides four Class A or B (Style D or B) Initiating Circuits, one dedicated Class B (Style B) Supervisory Circuit, and four Class B (Style Y) Output Circuits. An optional Class A (Style Z) Output Module is available.

Programming: The four input circuits and four output circuits can be configured into 16 standard operating programs that are field selectable by utilizing a set of simple to operate dip switches. Output 1 is reserved for use as a general alarm notification appliance circuit, while Outputs 2, 3, and 4 can be configured in various combinations as solenoid release circuits, or notification appliance circuits suitable for fire alarm, water flow, or supervisory signaling. For ease of servicing, Outputs 2, 3, and 4 have a disconnect switch to prevent accidental operation. When activated, the disconnect switch causes an off-normal supervisory indication at the control panel. Cross-zoning configurations are limited to the following input groupings: Inputs 1 and 2; Inputs 3 and 4.

Visual Indicators: Seven system status indicators are mounted on the main control board. A green Power On LED, a red Common Alarm LED, and five yellow LED's indicating Ground Fault, Battery Trouble, System Trouble, Output Disconnect Supervisory and System Silence. Additional red and yellow LED's are provided for each of the four input and four output circuits to indicate individual zone Alarm and Trouble. The dedicated supervisory circuit is provided with two yellow LED's to indicate zone alarm and trouble.

System Controls: The system controls consist of two momentary push button switches that provide the following functions: System Silence, and System Reset. The switches are located on the main control board and are accessible only by unlocking the enclosure door.

Options

Protectowire Alarm Point Location Meter: The SRP-4x4 Control Panel is available with the PDM-1000-3 Alarm Point Location Meter. This unique feature is designed to locate a heat-actuated point on the Protectowire Linear Heat Detector. The high intensity LCD meter will display the distance in feet or meters from the start of the Detector portion of the zone to the heat actuated point on the Protectowire Linear Heat Detector.

Class A (Style Z) Output Circuits: A conversion Module, Model AM-91-2, is available to convert the standard Class B (Style Y) output circuits to Class A (Style Z) operation. Each AM-91-2 Module

will convert two output circuits.

Zone Alarm Relays: A zone operated Alarm Relay Board, Model RB-4, is available that provides four SPDT relays, rated at 1 amp, 24 VDC. The RB-4 is designed for quick, easy field installation and provides zone activated contacts for auxiliary alarm control and annunciation functions.

Specifications

Enclosure:

- 16 gauge steel with piano hinged door.
- Size: 20.5 in. (H) x 14.5 in. (W) x 4.7 in. (D) (52 cm x 37 cm x 12 cm)

Initiating Device Circuits:

- Four Class A or B (Style D or B) Alarm Circuits and one dedicated Class B (Style B) Supervisory Circuit.
- Maximum length of Protectowire Linear Heat Detector per circuit: 5,000 feet (1,524 m).
- Two Wire Smoke Detector capacity per circuit: 20 - 0.045 mA type as supplied by The Protectowire Company.

Output Circuits:

Alarm Indicating, Trouble Indicating, Supervisory, or Releasing.

- Four Class B (Style Y) Output Circuits, reverse polarity on alarm.
- Optional Class A (Style Z) AM-91-2 Module available.
- Output 1, dedicated to Common (General) Alarm signaling, rated 24 V FWR, 1 amp continuous. Outputs 2, 3, and 4 are rated at 1 amp each, 2.1 amp combined.
- Outputs 2, 3, and 4 are provided with a common disconnect switch.
- UL listed compatible Solenoids (see manual) and FM Solenoid Groups A, B, D, E, F, G & H.

Outputs:

- Remote Signaling SPDT Relays rated 3 amp, 30 VDC for Alarm, Trouble, and Supervisory.
- Auxiliary Power - Regulated 24 VDC, rated 100 mA max. (Power Limited).

Input Power:

- 120 VAC +10 -15% - 100 VA max. (240 VAC available).

Approvals:

- UL listed (9th Edition) • Factory Mutual
- California State Fire Marshal #7165-0854:0104

Ordering Information

Model	Description	Approx. Shipping Weight	
		Lbs.	Kg
SRP-4x4	Four Zone Fire Alarm/Releasing Control Panel with one dedicated Supervisory Circuit and four Output Circuits.	21	9.5
SRP-4x4M	Four Zone Fire Alarm/Releasing Control Panel with one dedicated Supervisory Circuit, four Output Circuits and Digital Protectowire Alarm Point Location Meter.	22	10
RB-4	Alarm Relay Board with four SPDT relays, rated 1 amp, 24 VDC. (Field Installed)	1	.45
AM-91-2	Class A (Style Z) Conversion Module. Converts two Class B (Style Y) Output Circuits to Class A operation. (Field Installed)	1	.45

Refer to Operating & Maintenance Manual for battery size selection and programming information and limitations.