Flexibility

The basic 2000 Series Control Panel is designed for easy expansion of system capability by adding additional modules and functions to the standard system. The 2000 will accommodate a combination of the following options:

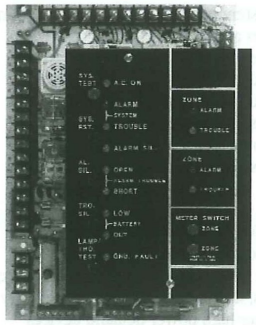
- Protectowire alarm point location meter
- Extinguishing system release and supervision
- Water flow detection
- Fire and non-fire supervisory monitoring
- Intrinsically safe detection zones
- Municipal tie
- Supplementary relays

A complete list of available options is included in the "System Configuration Guide" section of this catalog sheet.

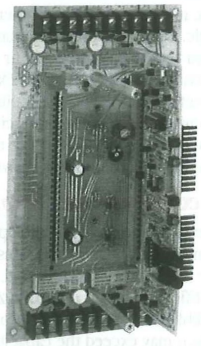
System Expansion

The basic 2-wire control unit consists of two (2) detection zones, and requires one module space in the system enclosure. The zone capacity of the basic system can be expanded up to a maximum of forty-six (46) zones in one EN12 enclosure, by utilizing the required number of plug-in zone modules and their associated EB-91 zone expander boards. Each standard 2-wire zone module requires a half module space in the system enclosure and contains two (2) individual detection circuits. To monitor the two detection circuits, a red LED zone alarm indicator and a yellow zone trouble indicator are supplied for each zone. Supervisory zone cards utilize two yellow LED indicators per zone to indicate supervisory alarm and supervisory trouble.

The modular system design enables the system to be modified at any time. The required number of input and output circuits and system options are custom assembled and tested at the factory to ensure exact conformance with the customer's application requirements.



FS2000 Basic control module



Zone expander board (EB-91) with one plug-in zone module

System Features

Nine system status indicators are mounted on the main control board. A green POWER ON LED, a red SYSTEM ALARM LED, a yellow SYSTEM TROUBLE/SUPERVISORY signal LED, and a yellow GROUND FAULT indicator. Additional yellow indicating LED's are provided for ALARM SILENCED, AUDIBLE SIGNAL CIRCUITS OPEN/SHORTED, BATTERY LOW and BATTERY OUT.

System controls consist of five push button switches which provide the following functions: System Test, System Reset, Alarm Silence, Trouble Silence, and Lamp and Trouble Test.

Protectowire Alarm Point Location Meter (Option A) and Scanner (Options B, C & C2)

Protectowire introduces "smart" detector technology to Linear Heat Detectors. The PDM-1000-1 Meter (Option A) may be built into the 2000 Series Control Panel to locate a heat actuated point on the Protectowire Linear Heat Detector. The meter will display the distance in feet or meters from the start of the Detector portion of the zone to the overheated or actuated point on the Protectowire Linear Heat Detector.

A Zone Alarm Scanner option for the PDM-1000-1 is available which allows for automatic identification and display of the Protectowire zone in alarm, as well as the alarm point distance location, while still monitoring the remaining Protectowire zones for an alarm condition. The Scanner is available in the following configurations: 8 zones (Option B), 16 zones (Option C), and 32 zones (Option C2).

PDM-1000–1 Protectowire alarm point location meter with 16 zone alarm scanner. (Options A & C)

Solenoid Monitor and Release Module (Options G & GG)

The RS-91 Series Solenoid Monitor and Release Modules are designed to operate and supervise solenoid valves used for the actuation of extinguishing systems.

Release logic and subsequent activation of the module is governed by the appropriate detection zone module(s) in the 2000 Series Control Panel. When the alarm signal is transferred to the release module(s), a 24VDC output is initiated to operate the normally de-energized solenoid, which activates the extinguishing agent release sequence.

The release circuits are supervised for open and shorted conditions. In the case of an open or short, the system trouble buzzer will sound and the appropriate yellow indicating LED will illuminate. A circuit disconnect switch is also provided to deactivate the module during servicing of the system.

The release module is available in two versions. Option G (RS-91) contains two (2) independent 24VDC release circuits plus two (2) Class B switch supervisory circuits. The RS-91 release module requires one (1) module space in the system enclosure and has