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DS9400M AddressiFire Fire Alarm Control Panel

▸ **Digital Fire Alarm Control Panel**

▸ **Provided with four conventional on-board inputs, expandable to eight**

▸ **Up to 247 Addressable Multiplex Points**

▸ **Supports two-wire and four-wire conventional type detectors**

▸ **Two NACs**

▸ **Two On-Board Auxiliary Relays**

▸ **Internal 24 V, 4 A power supply**

▸ **Supports four remote LCD Keypads**

▸ **On-board programming via front panel**

▸ **Expandable to 255 points**

The DS9400M AddressiFire 255 is a microprocessor-based Fire Alarm Control Panel. This four conventional point panel can expand to 255 input points. It supports up to twenty two-wire detectors per on-board conventional point, or any number of four-wire detectors (depending on available power). Two Notification Appliance Circuits (NACs) provide up to 4 A of 24 V power to operate horns, strobes, bells and other notification appliances. The DS9431 Multiplex Expansion Module (pre-installed) enhances the DS9400M's conventional system features by adding addressable point capability, increasing the number of relay outputs and allowing for more system users.

Functions

Easy user interface

Nine labeled function keys allow the user to easily silence bells, sirens, reset smoke detectors, or view history events. Menu driven keypad programming allows for customizing of the control panel.

Keypad programmable

The system is completely keypad programmable, thus eliminating the need for an expensive hand-held programmer.

Initiating circuits

All on-board conventional input points will work with two-wire or four-wire smoke detectors. Twenty detectors (two-wire) maximum per zone.

Multiplex expansion technology

The DS9431 Multiplex Expansion Module (pre-installed) enhances the DS9400M conventional system features by expanding the base system to 255 total points, increasing the number of relay outputs to 58 and adding an additional 400 events to the history buffer for a total of 500 non-volatile events. The DS9431 also allows for up to 100 system users on the DS9400M.

Built-In and remote alpha keypad support

The keypad built in to the control panel and the DS9447 remote LCD keypad are alphanumeric keypads that provide a two-line, 16-character (per line) LCD display. Text is freely programmable for zone descriptions. Up to four DS9447 remote LCD keypads are allowed per system.

Personal ID Numbers (PINs)

The system supports up to 100 Personal ID Numbers (PINs), which are four digits in length. The PINs may contain any combination of digits. PINs may be programmed with four different levels of authority. These PINs may be restricted to silencing, resetting, disabling, and/or programming the system.

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Smoke detector alarm verification

Should an alarm occur, the DS9400M may be programmed to perform an automatic reset on the smoke detectors. If a second alarm on any smoke input point occurs within the verification window, an immediate fire alarm results. This reduces potential false alarms, while still providing fast response to an alarm.

Flexible digital communication

The communicator will work with most alarm receivers that are in use today. It supports SIA (110 or 300 Baud), Contact ID, BFSK, and 4/2 Tone burst digital communicator formats.

EE Memory

The panel uses EEPROM technology, thereby allowing it to retain all program memory through a total power failure. None of the system programming or user codes will be lost.

Three telephone numbers

The systems supports two 20-digit telephone numbers with a three- or four-digit account code for each. Each phone line's dialing type can be configured for either pulse or tone dialing. The communication format for each phone number can also be set. The third phone number is reserved for remote programming.

Event history buffer

A 500 event history buffer, which can be read at the built-in or DS9447 keypads, keeps track of events by time and date.

Commercial Fire

Type Service: Auxiliary, Local, Central Station, and Remote Station.

Type Initiating: Automatic, Manual, Sprinkler Supervisory and Waterflow.

Installation/Configuration Notes

Keypads:

Up to four keypads may be used in the system with a maximum wire length of 300 m (1000 ft.) each.

Note No more than two keypads per 300 m (1000 ft.) run.

Wiring:

The maximum wire length total in the system is 1220 m (4000 ft.) using 0.8 mm (#22 AWG) or 1.0 mm (#18 AWG) 4-conductor cable.

Technical Specifications

Enclosure Design

Dimensions (HxWxD):	53 cm. x 38.1 cm. x 11.0 cm (20.8 in. x 15.0 in. x 4.3 in)
Material:	The standard enclosure is manufactured from 1.2 mm (18 guage) cold-rolled steel. A keyed lock is included, and the LEDs and display are visible through the door.

Environmental Considerations

Temperature (Operating):	0°C to +49°C (+32°F to +120°F)

Inputs

Supervisory EOL Resistor:	2.21 kΩ

Keypads:

	Maximum four keypads.

Outputs

Relays (On-Board):	Two Form "C„ relays rated at 5 A, 28 VDC. Programmable for a variety of system events.
NACs (on-board):	Two: NAC 1 and NAC 2. These are 24 V outputs for notification devices, with up to 2.5 A capacity (but limited by overall 4.0 A capacity) on each circuit. Wired for standard Class B operation.

Power Requirements

Power (Auxiliary):	20 VDC to 30 VDC unfiltered, 1 A
Power (Initiating Circuit):	20.4 VDC to 28.2 VDC filtered, 1 A
Power (Input):	120 VAC, 1.5 A
Power (NAC):	20 VDC to 30 VDC unfiltered, 4 A
Power (Open Bus):	12 V±5%, 500 mA
Standby Batteries:	Two (optional) 12 V (in series), 7 Ah to 40 Ah
Standby Current (Detector):	3 mA maximum total per point

Ordering Information

DS9400M AddressiFire Fire Alarm Control Panel	**DS9400M**
Accessories	
DS9432 Addressable 8-Point Input Module	**DS9432**
DS9434 Four-Point Expander	**DS9434**
DS9446 Eight-zone LED Expander	**DS9446**
DS9488 Octal Relay Module	**DS9488**

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