



SFP-400

4-Zone Fire Alarm Control Panel

G-120

Catalog Section: Conventional Fire Alarm Control Panels

June 20, 1995

FEATURES

- 4 Class A/B (Style B/D) initiating devices.
- 2 Class A/B (Style Y/Z) notification appliance circuits.
- 2 Class B (Style Y) notification circuits.
- Complies with:
 - a) NFPA 72 Central Station Signaling Systems.
 - b) NFPA 72 Local, Auxiliary, Remote Station, and Proprietary Signaling Systems.
- Microprocessor-controlled.
- Power-limited on all circuits except Municipal Box output.
- Alarm and trouble resound.
- General Alarm operation.
- Ring-by-zone option.
- Supervisory input option.
- Waterflow input option.
- Alarm Verification option with discrimination between smoke detectors and contact devices.
- Timed silence inhibit option.
- Bell disable.
- Optional module for 4 zone relays (4XZM).
- Optional transmitter module (4XTM).
- Optional volt/amp meter module (4XMM).
- Optional supervised remote annunciator (RZA-4X). Requires LED interface module (4XLM).
- Optional digital communicator (NOTI•FIRE 911A).
- Disable/enable controls per initiating zone.
- Battery/earth fault supervision.
- Last event recall feature traps unverified alarms or intermittent troubles.
- One man Walk Test feature with zone change indication and zone trouble indication.
- Fuse protection on all indicating circuits.
- RMS regulated 24 VDC output power, 2.25 amperes.
- 6.5 AH to 15 AH battery options, up to 90 hours standby.
- 230 VAC, 50 Hz international option.
- 4-wire smoke detector power output.
- Non-resettable regulated 24 VDC power outputs.
- Extensive transient protection.
- Watchdog timer to supervise microprocessor.
- Slide-in labels for zone identification.
- Steel cabinet 14.5" wide by 16" high by 5" deep.
- Dead-front dress panel option (DP-4X).
- Trim ring for flush mount between 16" center studs (TR-4XG).



S635



CS118
CS733



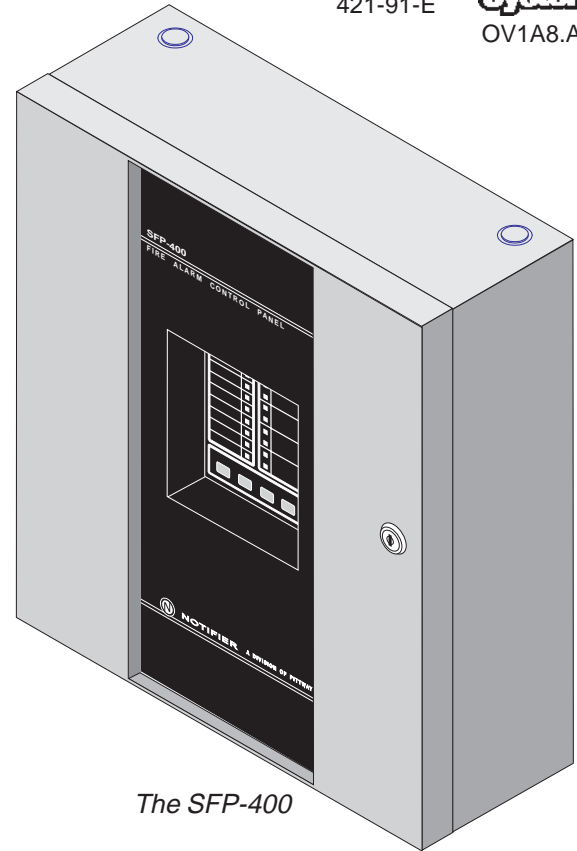
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The SFP-400

CIRCUITS

Input Circuits

1. Initiating Device Circuit 1 (Style B/D)
2. Initiating Device Circuit 2 (Style B/D)
3. Initiating Device Circuit 3 (Style B/D)
4. Initiating Device Circuit 4 (Style B/D)

Output circuits (optional auxiliary relays track these four circuits)

1. Notification Appliance Circuit (Style Y/Z).
2. Notification Appliance Circuit (Style Y/Z).
3. Notification Appliance Circuit (Style Y).
4. Notification Appliance Circuit (Style Y).

Front Panel Control Switches

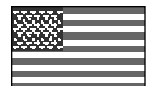
- Switch 1 Tone Silence.
- Switch 2 Alarm Silence.
- Switch 3 Alarm Activate (Drill).
- Switch 4 System Reset.

DN-3369

This document is not intended to be used for installation purposes. We try to keep our product information up to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118

NOTIFIER 12 Clintonville Road, Northford, Connecticut 06472

ISO-9001
Engineering and Manufacturing
Quality System Certified to
International Standard ISO-9001



Made in the U.S.A.

OPTIONAL BOARDS

The SFP-400 has mounting slots for two option boards. Any two of the three option modules may be installed.

Transmitter Module (4XTM):

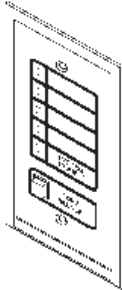
The Transmitter option provides a supervised output for local energy municipal box transmitter (for NFPA-72 Auxiliary Protective Signaling System) and alarm and trouble reverse polarity (for NFPA-72 Remote Station Protective Signaling System). Also included is a DISABLE switch and disable trouble LED. A jumper option allows the reverse polarity circuit to open with a System Trouble condition if no alarm condition exists.



Remote Annunciator (RZA-4X):

The Remote Annunciator mounts on a standard single-gang box and provides the following:

- System Trouble LED (yellow).
- Local Piezo Sounder.
- Silence Switch (for local sounder).
- Zone 1 LED (red).
- Zone 2 LED (red).
- Zone 3 LED (red).
- Zone 4 LED (red).



Note: The Remote Annunciator requires the use of an LED interface module (below).

LED Interface Module (4XLM):

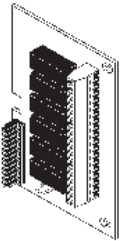
The module supports the RZA-4X Remote Annunciator module. The module mounts to the main board occupying one of the two option connectors. Annunciator LED wiring is supervised for opens. A Fault will activate System Trouble condition.



Zone Relay Module (4XZM):

The Zone Relay module provides Form-C general alarm and trouble contacts and the following Form-C relays:

- Zone 1.
- Zone 2.
- Zone 3.
- Zone 4.



OPTIONAL METERS

Voltage & Current Meters (4XMM):

The 4XMM provides a voltmeter to measure the voltage across the batteries and an ammeter to measure the charging current to the batteries. The meters are provided as an assembly that mounts to the lower left-hand corner of the cabinet.

DP-4X:

Internal dress plate option. Required in Canada.

TR-4XG

Trim Ring for Semi-Flush mounting.

SPECIFICATIONS

AC Power:

- 120 VAC, 60 Hz, 1.2 amps
- Wire size: 14 AWG with 600 V insulation

Initiating Circuits:

- Power-limited circuitry.
- Operation: Style B (Class B) / Style D (Class A).
- Standby voltage: 24 VDC (ripple = 10 mV peak-to-peak).
- Alarm current: 15 mA minimum.
- Short circuit current: 40 mA maximum.
- Maximum detector current in standby: 2 milliamps (peak) per zone.

- Maximum loop resistance = 200 ohm.
- End-of-line resistor: 4.7 K, 1/2 watt (part no. 71252)
- Detector loop current is sufficient to ensure operation of one alarmed detector per zone.
- Supervisory current: 5 mA

Notification Circuits:

- Power-limited circuitry.
- Maximum voltage drop due to wiring: 2 VDC
- Voltage: 24 VDC RMS regulated (not filtered).
- Total current to all external devices: 2.25 amps maximum.
- Fuses: 2 AG, 4 amps.
- Maximum signaling current per circuit: 1.5 amps.
- End-of-Line Resistor = 4.7 K, 1/2 watt (part no. 71252).

Alarm and Trouble Relays:

- Dry Form-C contacts rated for:
 - 2.0 amps @ 30 VDC (resistive).
 - 0.5 amps @ 30 VAC (resistive).

Digital Communicator *NOTI•FIRE 911A*:

For Central Station service (NFPA 72 Central Station Protective Signaling System) or Remote Station Service (NFPA 72 Remote Station Protective Signaling System).

Transmitter Module (4XTM):

For Local Energy Municipal Box service (NFPA-72 Auxiliary Protective Signaling System):

- Supervisory current: 5.0 mA.
- Trip current: 0.35 amps. (Subtracted from indicating appliance power.)
- Coil Voltage: 3.65 VDC.
- Coil resistance: 14.6 ohm.
- Total wire resistance between panel and trip coil = 3 ohm.

For Remote Station service (NFPA-72 Remote Station Protective Signaling System):

Maximum current allowed for both circuits shall not exceed 10 mA per circuit.

Reverse polarity output voltage = 24 VDC.

Zone Relay Module (4XZM)

- Dry, Form-C contacts rated for:
- 2.0 amps @ 30 VDC (resistive)
 - 0.5 amps @ 30 VAC (resistive)

Four-wire Smoke Detector Power Output Terminals

Up to 200 mA of current is available for 4-wire smoke detectors.

RMS Regulated 24 VDC Power Output Terminals

Total DC current available for powering external devices is 0.5 amp (subtracted from indicating appliance power dedicated to all output circuits).

Non-resettable 24 VDC Power Output Terminals

Total DC current available from this output is up to 200 mA (subtracted from four-wire smoke power).

Field Program Selections

6-position dipswitch to select:

- Alarm Verification.
- Waterflow Input.
- Supervisory Input.
- Silence Inhibit.
- Bell Disable.
- Walk Test.

Cabinet Dimensions:

- Door: 16.125" High x 14.625" Wide.
- Backbox: 16.0" High x 14.5" Wide x 4.75" Deep.
- Cabinet: 5.375" Deep.