



June 15, 2005

DN-0777 • F-100

RP-1001 Pre-Action/Deluge Control Panel

Section: Releasing Panels

FEATURES

- Two initiating device circuits (Style B/D).
- Waterflow input (Style B/D).
- Supervisory input (Style B/D).
- Two notification appliance circuits (Style Y/Z).
- Two release circuits (Style Y).
- *Complies with:*
 - ✓ NFPA 72 Local, Auxiliary, Remote Station, Proprietary Protective and Central Station Signaling Systems.
 - ✓ NFPA 13 Installation of Sprinkler Systems.
 - ✓ NFPA 15 Water Spray Fixed Systems.
 - ✓ NFPA 16 Deluge Foam-Water, and Foam-Water Spray Systems.
- Microprocessor-controlled.
- Power-limited on all circuits except Municipal Box output.
- Alarm and trouble resound.
- Discharge timer: 0, 10, or 15 minutes.
- Cross-zone option.
- Dual hazard option (combined or split release).
- Optional module for four zone/function 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 911AC** or **411UDAC**).
- Disable/enable controls per initiating zone.
- Battery/earth fault supervision.
- Last Event recall feature to trap intermittent trouble conditions.
- PTC protection on all indicating/release 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.
- Four-wire smoke detector power output.
- Non-resettable regulated 24 VDC power output.
- Extensive transient protection.
- Watchdog timer to supervise microprocessor.
- Output circuits protected against false activations by two-step command sequence.
- Slide-in labels for zone identification.
- Steel cabinet 14.5" (36.83 cm) wide by 16" (40.64 cm) high by 5" (12.7 cm) deep.
- Dead-front dress panel option (DP-4X).
- Trim ring for flush mount between 16" (40.64 cm) center studs (TR-4XR).

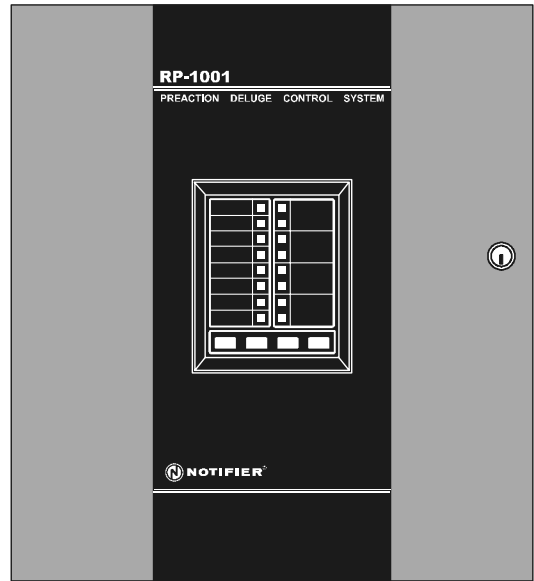


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CIRCUITS

Input Circuits:

1. Detector Circuit 1/Manual Release (Style B/D).
2. Detector Circuit 2 (Style B/D).
3. Waterflow (Style B/D).
4. Supervisory (Style B/D).

Output Circuits (*optional auxiliary relays track these four circuits*):

1. Alarm/Waterflow Bell (Style Y/Z).
2. Waterflow/Supervisory Bell (Style Y/Z).
3. Releasing Circuit 1 (Style Y).
4. Supervisory Bell/Release Circuit 2 (Style Y).

Front Panel Control Switches:

- Switch 1 — Tone Silence.
- Switch 2 — Alarm Silence.
- Switch 3 — Alarm Activate.
- Switch 4 — System Reset.

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



12 Clintonville Road, Northford, Connecticut 06472



Made in the U.S.A.

OPTIONAL BOARDS

The RP-1001 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.

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).
- ✓ Alarm/Waterflow Bell LED (red).
- ✓ Waterflow/Supervisory Bell LED (red).
- ✓ Releasing Circuit 1 LED (red).
- ✓ Supervisory Bell/Release Circuit 2 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 LED Interface Module mounts to the main board occupying one of the two option connectors. Annunciator LED wiring is supervised for opens. Faults 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:

- ✓ Alarm/Waterflow Bell.
- ✓ Waterflow/Supervisory Bell.
- ✓ Releasing Circuit 1.
- ✓ Supervisory Bell/Release Circuit 2.

Relays can be silenceable/non-silenceable by jumper.

OPTIONAL METERS

Voltage and 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.

SPECIFICATIONS

AC Power:

- 120 VAC, 60 Hz, 1.2 amps.
- Wire size: 14 AWG (2.0 mm²) 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), 5 mA.
- Alarm current: 15 mA minimum.
- Short circuit current: 40 mA maximum.
- Maximum detector current in standby: 2 milliamps (peak) per zone.

- Maximum loop resistance: 100 ohms.
- End-of-line resistor: 4.7 Kohms, 1/2 watt.
- Detector loop current is sufficient to ensure operation of one alarmed detector per zone.

Indicating/Releasing 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 max.
- Maximum signaling current per circuit: up to 1.5 amps.
- End-of-Line resistor: 4.7K ohms, 1/2 watt (P/N 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 911AC or 411UDAC: For Central Station service: (NFPA 72 Central Station Protective Signalling System) or Remote Station Service (NFPA 72 Remote Station Protective Signalling 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 ohms.
- Total wire resistance between panel and trip coil: 3 ohms.

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 four-wire smoke detectors.

RMS Regulated 24 VDC Power Output Terminals: Total DC current available for powering external devices is 0.5 amp (subtracted from notification 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:

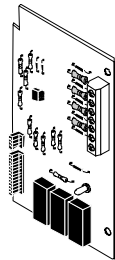
6-position dip-switch to select:

1. Two-zone, single-hazard operation.
2. Two-zone, single-hazard operation (cross-zoned).
3. Two-zone, dual-hazard operation (combined release).
4. Two-zone, dual-hazard operation (split release).
5. Discharge times: 0, 10, or 15 minutes.

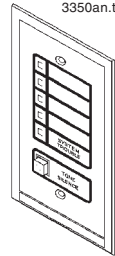
Cabinet Dimensions: **Door:** 16.125" (40.958 cm) high x 14.625" (37.148 cm) wide. **Backbox:** 16.0" (40.64 cm) high x 14.5" (36.83 cm) wide x 4.75" (12.065 cm) deep. **Cabinet:** 5.375" (13.653 cm) deep.

Optional Equipment: **Trim Ring,** TR-4XR. **Dress Panel,** DP-4X.

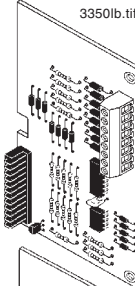
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