



June 15, 2005

DN-3350 • F-110

RP-1002 Agent Releasing Control Panel

Section: Releasing Panels

FEATURES

- Two initiating circuits (Style B/D).
- Abort Switch input (Style B/D).
- Manual Release input (Style B/D).
- Supervisory input option (Style B).
- Two notification appliance circuits (Style Y/Z).
- Two release circuits (Style Y).
- *Complies with:*
 - ✓ NFPA 72 Local, Auxiliary, Remote Station, Control Station, and Proprietary Protective Signalling Systems.
 - ✓ NFPA 12 CO₂ (high-pressure only) Extinguishing Systems.
 - ✓ NFPA 12A Halon 1301 Extinguishing Systems.
 - ✓ NFPA 2001 Clean Agent Fire Extinguishing Systems.
- Microprocessor-controlled.
- Power-limited on all circuits except Municipal Box output.
- Alarm and trouble resound.
- Cross-zone option.
- Delay timer: 0, 10, 20, or 30 seconds.
- Dual-hazard operation. (single-hazard if release circuit #2 is used for Supervisory input.)
- Special abort options for IRI, New York City, and other local jurisdictions.
- Distinct audible indications for: one zone in alarm; two zones in alarm; release.
- General alarm and trouble relays.
- 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**).
- 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.



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- Dead-front dress panel option (DP-4X).
- Trim ring for flush mount between 16" (40.64 cm) center studs (TR-4XR).

CIRCUITS

Input Circuits:

1. Detector Zone 1 (Style B/D).
2. Detector Zone 2 (Style B/D).
3. Abort (Style B/D).
4. Manual Release (Style B/D).
5. Supervisory (Style B).

Output Circuits:

1. Notification Circuit 1 (one zone in alarm).
2. Notification Circuit 2 (pulse with two zones in alarm and sound steady on release).
3. Releasing Circuit 1.
4. Releasing Circuit 2.

Front Panel Control Switches:

1. Switch 1 Tone Silence
2. Switch 2 Alarm Silence
3. Switch 3 Alarm Activate
4. 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



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OPTIONAL BOARDS

The RP-1002 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).
- ✓ Indicating Circuit 1 LED (red).
- ✓ Indicating Circuit 2 LED (red).
- ✓ Releasing Circuit 1 LED (red).
- ✓ Releasing 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 module mounts to the main board occupying one of the two option connectors. LED wiring is supervised for opens.

Zone Relay Module (4XZM) — The Zone Relay module provides Form-C general alarm and trouble contacts and the following Form-C relays:

- ✓ One detector in alarm.
- ✓ Two detectors in alarm.
- ✓ Releasing Circuit 1 Activated.
- ✓ Releasing Circuit 2 Activated.

NOTE: Relays can be silenceable/non-silenceable by jumper option.

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.

SPECIFICATIONS

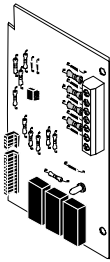
AC power:

- 120 VAC, 60 Hz, 1.2 amps.
- Wire size: 14 AWG (2.00 mm²) with 600 V insulation.

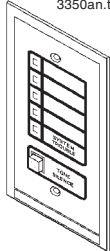
Initiating circuits:

- Power-limited circuitry.
- Operation: Style B (Class B)/ Style D (Class A).
- Standby voltage: 24 VDC (ripple = 10 mV peak-to-peak).
- Alarm current: 15 mA minimum.
- Short circuit current: 40 mA maximum.
- Maximum detector current in standby: 2 mA (peak) per zone.
- Maximum loop resistance: 100 ohms.
- End-of-line resistor: 4.7 K, 1/2 watt (P/N 71252).

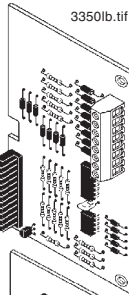
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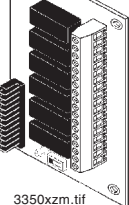
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- Detector loop current is sufficient to ensure operation of one alarmed detector per zone.
- Supervisory current: 5 mA.

Notification/releasing circuits:

- Power-limited circuitry.
- Maximum voltage drop due to wiring: 1.5 VDC.
- Voltage: 24 VDC RMS regulated (not filtered).
- Total current to all external devices: 2.25 amps maximum.
- Maximum signaling current per circuit: up to 1.5 amps.
- End-of-line resistor: 4.7 K, 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 Central Station Protective) or 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 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-programming selections:

Six-position dip switch to select:

- Cross Zone Operation.
- Supervisory Input/Single Hazard Output.
- Delay Time: 0, 10, 20, or 30 seconds.
- Abort Mode.

Cabinet dimensions: **Door:** 16.125" (40.958 cm) high x 14.625" (37.148 cm) wide. **Backbox:** 16.0" (40.640 cm) high x 14.5" (36.83 cm) wide x 4.75" (12.065 cm) deep. **Cabinet:** 5.375" (13.653 cm) deep.

Optional parts: **Trim ring:** TR-4XR. **Dress panel:** DP-4X.