

PDRP-1002 Series Agent Releasing Control Panel



Models Available

- PDRP-1002 Agent Releasing Panel
- PDRP1002E (International, 230V)

Optional Accessories Available

- 4XZM Zone Relay Module
- 4XTM Transmitter Module
- 4XLM LED Interface Module
- 4XMM Volt/Amp Meter
- RZA-4X Supervised Remote Annunciator *requires LED interface module (4XLM)*
- NOTI•FIRE 911A Digital Communicator



Product Overview

- 2 initiating device circuits (Style B/D)**
- 2 notification appliance circuits (Style Y/Z)**
- 2 release circuits (Style Y)**
- Abort switch input (Style B/D)**
- Manual release input**
- Supervisory input option (Style B)**
- Distinct audible indications for: 1 zone in alarm; 2 zones in alarm; release**
- Power-limited on all circuits except municipal box output**
- Alarm and trouble resound**
- Battery/earth fault supervision**
- Last event recall feature to trap intermittent trouble conditions**
- Fuse protection on all indicating/release circuits**
- Discharge timer: 0, 10, or 15 minutes**
- Disable/enable controls per initiating zone**
- Cross-zone option**



Features. Battery/earth fault supervision and fuse protection on all indicating/release circuits. Extensive transient protection. 6.5 AH to 15 AH battery options, up to 90 hours standby. Output circuits protected against false activations by 2-step command sequence and watchdog timer to supervise microprocessor. Last event recall feature to trap intermittent trouble conditions. Non-resettable regulated 24 VDC power output and RMS regulated 24 VDC output power, 2.25 amperes. 230 VAC, 50 Hz international option. 4-wire smoke detector power output. Slide-in labels for zone identification.

Code Compliance. Complies with NFPA 71 Central Station Signaling System and NFPA 72 Local, Auxiliary, Remote Station, Control Station, and Proprietary Protective Signaling Systems. Also meets NFPA 12 CO₂ (high pressure only) Extinguishing Systems and both NFPA 12A Halon 1301 Extinguishing Systems, as well as NFPA 12B Halon 1211 Extinguishing Systems. Complies with special abort options for IRI, New York City and other local jurisdictions.

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.

General Specifications

Dimensions

Door:
16.125"H x 14.625"W

Backbox:
16.0"H x 14.5"W x 4.75"D

Cabinet:
16.125"H x 14.625"W x
5.375"D

Electrical Specifications

120 VAC, 60 Hz, 1.2 A

Input Terminals

14 AWG with 600 V
insulation

Circuit Specifications

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

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

Initiating Circuit Specifications

General

Power-limited circuitry

Operation: Style B (Class B)
/ Style D (Class A)

Electrical Specifications

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 mA (peak)
per zone

Maximum loop resistance:
200 ohms

EOL resistor:
4.7 Kohms, ½ watt

Notification/Releasing Circuit Specifications

General

Power-limited circuitry

Electrical Specifications

Voltage: 24 VDC RMS regu-
lated (not filtered)

Maximum voltage drop due to
wiring: 1.5 VDC

Total current: 2.25 amps max.

Maximum signaling current per
circuit: 1.5 amps

Fuses: 2 AG, 4 amps

EOL Resistor: 4.7 Kohms,
½ watt (part no. 71252)

Terminal Specifications

Four-wire Smoke Detector
Power Output Maximum
Current: 200 mA

RMS Regulated 24 VDC Power
Output Maximum current:
0.5 A (subtracted from notifi-
cation appliance power dedi-
cated to all output circuits).

Non-resettable 24 VDC Power
Output Maximum DC current:
200 mA (subtracted from four-
wire smoke power).

Alarm/Trouble Relays

Dry Form-C contacts rating:
2.0 amps @ 30 VDC (resistive)
0.5 amps @ 30 VDC (resistive)

NFPA Standard Specified Requirements

Digital Communicator NOTI•FIRE 911A

For Central Station ser-
vice (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 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.

Optional Boards

The PDRP-1002 has mounting slots for two option boards. Any two of the three option modules may be installed.

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

One detector in alarm

Two detectors in alarm

Releasing Circuit 1 Activated

Releasing Circuit 2 Activated

Relays can be silenceable/non-silenceable
by jumper

Transmitter Module (4XTM)

The Transmitter module option provides a super-
vised output for local energy municipal box trans-
mitter (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.

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.

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.

System Sensor Sales and Service

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