Description
DF 900-RP Agent Release Panel UL listed and NFPA-72. These panels are a feature packed control unit performing dual function of detection and controlled release of gaseous agent. These panels have 4 detection circuits and 2 agent release circuit with various programmable options. The panel have all the safety features to prevent accidental release, easy to install, commission with user friendly programmable option, this panel is ideal choice to protect the premises.

Features
- 16x2 Dot Matrix LCD Display
- Operates on 120-220v 60 / 50 Hz, AC Mains power supply.
- 4 Class B initiating device circuit (IDC).
- All zones accept smoke detectors and any normally open contact device.
- Any Zone can be configured as Alarm or supervisory Zone.
- 2 Class B Releasing Agent Circuits (RAC).
- 2 Class B Notification Appliance Circuits (NAC).
- Standby (battery) backup 24v DC power supply with built in charger
- Main, Standby status audio visual indication.
- Battery Low audio visual warning tone.
- 3 Form C programmable relays for Fire / fault / supervisory / Gas Released.
- Two modes of operations Auto / Manual.
- Programmable 24v D.C Outputs.
- RS 485 Communication facility (Optional).
- 200 Events history log with RTC.
- Walk Test facility.
- Zone Isolation facility with voltage cut off.
- Earth fault annunciation facility.
- All field wiring circuits are Power limited except 220v C and Battery.
- All field wiring circuits are supervised.
- AC Low voltage cutoff.
- Programmable RAC’s with count down timer.
- Programmable AC loss delay
- Programmable Trouble remainder.

Special Features
- Detect Fire is American Company with high quality product
- UL Listed (9th Edition).
- Switch Mode Power Supply.
- Modular Construction, Serviceable.
- Special logic circuitry to prevent accident release.
- Auto Resettable Fuse.
- Surge Protected.
- Battery polarity & deep discharge protection.
- NAC’s Output:
- Variable solenoid ON / OFF time.
- 4 No’s of programmable Initiating Device Circuit and 2 No’s of Releasing Agent circuit, with the independent correlation of any no of initiating devices circuit with any one of Release Agent Circuit.
- 4 No’s Programmable (Fire, Cross Zone & Gas Release) relays for integration of third party system
- Separate LED indications on front facia for individual Releasing Agent Circuit.
**Electrical Specification:**

**Primary Power (RE-SMPS-4A-R1)**
120 - 220VAC ± 10%, 50 Hz, 2.5Amps.

**Standby Power**
24v D.C (2 Nos of 12v, 12Ah Sealed Lead acid battery).

**Charging Circuit**
Charging Voltage 28.0V, ± 0.2V
Charging Current 800mA (Max).

**D.C. Output**
Supervised 24VDC, 300mA Max.

**Common Relays**
- Type : Form C
- No of Relays : 3
- Relay Contact Rating : 2 Amps @ 30 VDC, 0.5 Amps @ 125 VAC.

**Programmable Input Circuit**
- No. of Inputs : 4
- Normal Operating Voltage : 8 - 12 VDC.
- Short Circuit Current : 5mA Maximum.
- Loop resistance : 100 ohms Maximum.
- End-Of-Line Resistor : 3K9, 1/2watt
- Standby Current : 2.5mA
- Maximum Manual Release Switch : 3 No’s.

**Initiating Device Circuits**
All Zones are Class B Style B/C operation (Programmable).
- Normal Operating Voltage : 14 - 21 VDC.
- Alarm Current : 15 - 30mA.
- Short Circuit Current : 45mA Maximum.
- Loop resistance : 100 Maximum.
- End-Of-Line Resistor : 3K9, 1/2watt
- Standby Current : 7mA (2mA for Detectors)

**Notification Appliance Circuits**
Class B, Style - Y wiring
- No of circuits : 2
- Operating Voltage : 24VDC Nominal
- Current : 0.6A per circuit
- Line Drop : 1.8V
- End-Of-Line Resistor : 3K9, 1/2watt

**Releasing Agent Circuit**
Class B. Style – Y wiring
- No of circuits : 2
- Operating Voltage : 24VDC Nominal
- Current : 0.6A per circuit
- Line Drop : 1.8V
- End-Of-Line Resistor : 3K9, 1/2watt
DF 900-RP Agent Release Panel

Mechanical Specification:
- Dimensions: (400W X 350H X 120D)mm
- Color: Red / White
- Construction: 18 Gauge (1.22 mm) CRCA sheet with powder-coated Finish
- IP Rating: IP50
- Cable Entry: 11xø19mm Knockout in top of the cabinet
  10xø22.25mm Knockout in top of the cabinet

Mounting Diagram

Note:- All Dimensions are in MM
Wiring Diagram

**Note:**

- D1,D2 - Two wire detectors
- EOL - End Of Line Resistor
- NAC - Notification Alarm Circuit

**Initiating Device Circuit**

- IDC’s are 1 to 8, Class B StyleB/C
- End of Line - 3K9 1/2W
- PN: RE3K9

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©All the field wiring circuits are Power limited except 120-220v A.C and Battery.