



DF 900-RP Agent Release Panel

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 cutt 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.





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Electrical Specification:

Primary Power (RE-SMPS-4A-R1)

120 - 220VAC \pm 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, \pm 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



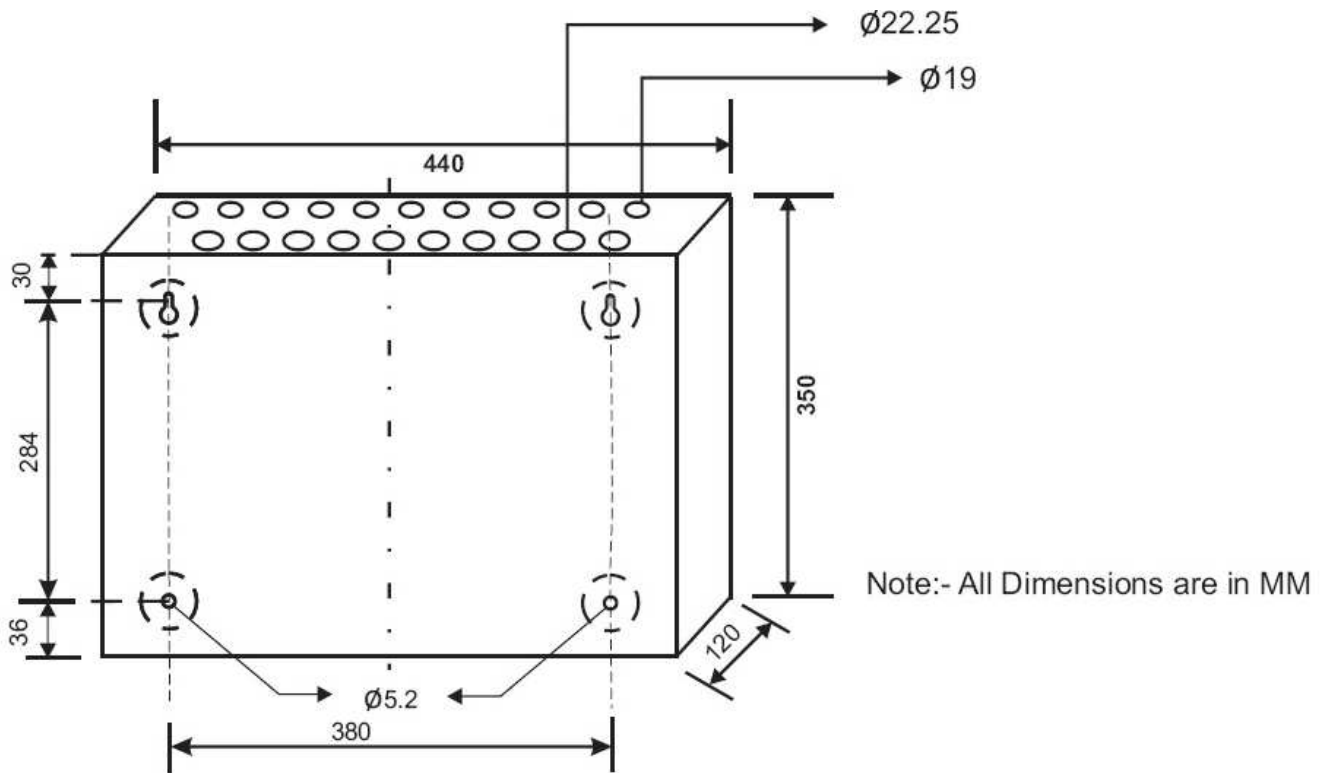


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Mechanical Specification:

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	: 11x ϕ 19mm Knockout in top of the cabinet 10x ϕ 22.25mm Knockout in top of the cabinet

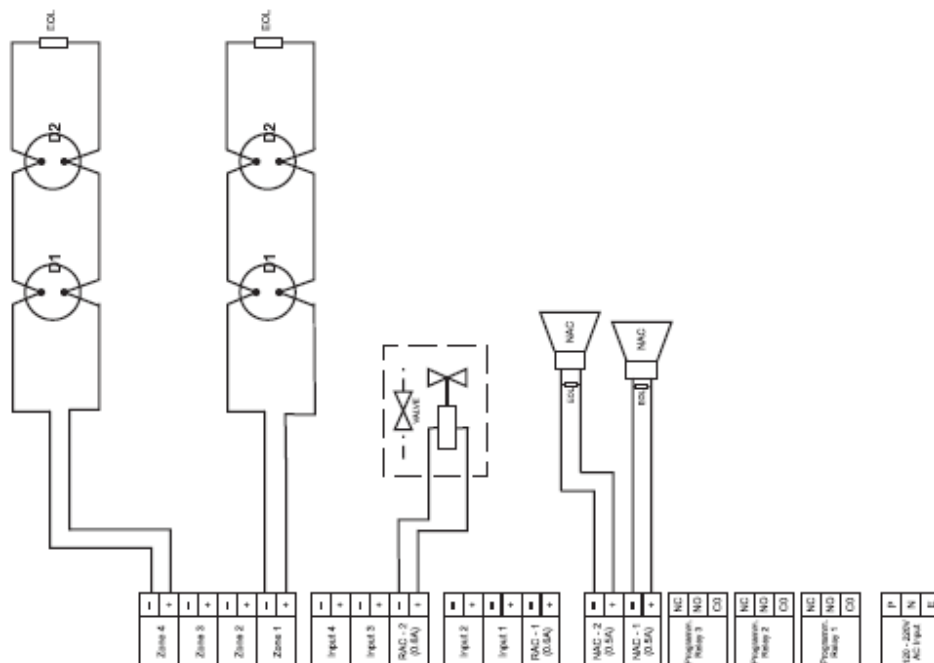
Mounting Diagram





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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

⊙All the field wiring circuits are supervised.

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

