



PRO Intelligent Addressable Fire Alarm Control Panel

Description

PRO, is a cost effective, intelligent addressable fire alarm control panel having an extensive list of powerful features. The power supply with separate metal cabinet and all other master control and indicating boards housed in a other metal cabinet, provide a complete fire control system for most applications. The panel has maximum capability for four loop cards, which are plugged into the main circuit board. Higher loop requirements can be catered to using the networking feature of the panel.

Features

- User Friendly circuit
- Device / Detector wise configuration facility
- 2000 Event Storage with Real Time Clock
- Up to 192 grouping facility
- Pre Alarm Action
- All field wiring are power limited and supervised
- Programmable detector sensitivity
- Device type verification
- Earth fault annunciation facility at 0 ohms
- Double Address Sensing
- Walk test
- Loop wise test
- Lamp (LED) test
- 40 x 4 Characters LCD display
- Maximum 4 numbers of loop card with Class A, Style 5,6 or 7 and Class B Style 4 wiring
- Maximum 254 devices (any combination) per loop
- Day / Night Mode facility
- USB 2.0 Interface for PC connectivity
- RS 485 Communication facility for Network / Repeater
- Programmable Auto Silence Facility
- Two no's of programmable inputs
- Battery low audio, visual warning
- Three programmable Form C relay for Fire, Fault and Supervisory
- Two no's of Supervise Notification Appliance Circuit

Special Features

- Detect Fire is American Company with high quality product
- UL listed (9th edition)
- Switched Mode Power Supply
- Modular Construction, Serviceability
- Networkable
- Auto resettable fuse.
- Surge Protection
- Battery polarity and deep discharge protection
- 32 Bit processor
- Unique protocol feature for fast alarm response
- Inbuilt conventional circuit
- Touch Keypad for user friendly operation
- Auto learning facility
- Multi protocol
- Peer to Peer Networking
- Redundancy: if the main CPU fails, it will raise an alarm like conventional panel.





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Electrical Specification:

Primary Power

120 / 220VAC + 10% - 15%, 60 – 50 Hz

Standby Power

24V D.C (2 No's of 12V, 40 Ah (Max), Built in for
12Ah) Sealed Lead acid battery

Charging Circuit

Charging Voltage 28 V, $\pm 0.2V$ Nominal

Charging Current 1.2A (Max.).

Notification Appliance Circuits

No of circuits : 2

Class B, Style - Y wiring

Operating Nominal Voltage : 24 VDC Nominal

Current for NACs :

NAC – 1 : 1A

NAC – 2 : 0.8A

Line Drop : 2.4V

End-Of-Line Resistor : 4K7, ½ watt

D.C. Output

Supervised 24VDC, 300mA Max.

Programmable Relays

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

Signaling Line Circuits

Loop card : 4 Nos. Maximum.
No Devices per loop : 254
Loop resistance : 40 (Max.).
Loop capacitance : 0.6 μ f (Max.).
Loop Current : 300mA (Max.).

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Initiating Device Circuits

Class B Style B/C Operation.

No of Conventional Zone : 1
Normal Operating Voltage : 14 - 21 VDC.
Alarm Current : 15 - 30mA.
Short Circuit Current : 45mA Maximum.
Loop resistance : 100 Maximum.
End-Of-Line Resistor : 4K7, 1/2watt
Standby Current : 7mA (2mA for Detectors)

Programmable Input Circuit

Normal Operating Voltage : 4 - 8 VDC.
Short Circuit Current : 3mA Maximum.
Loop resistance : 100 Maximum.
End-Of-Line Resistor : 4K7, 1/2watt
Standby Current : 1.25mA



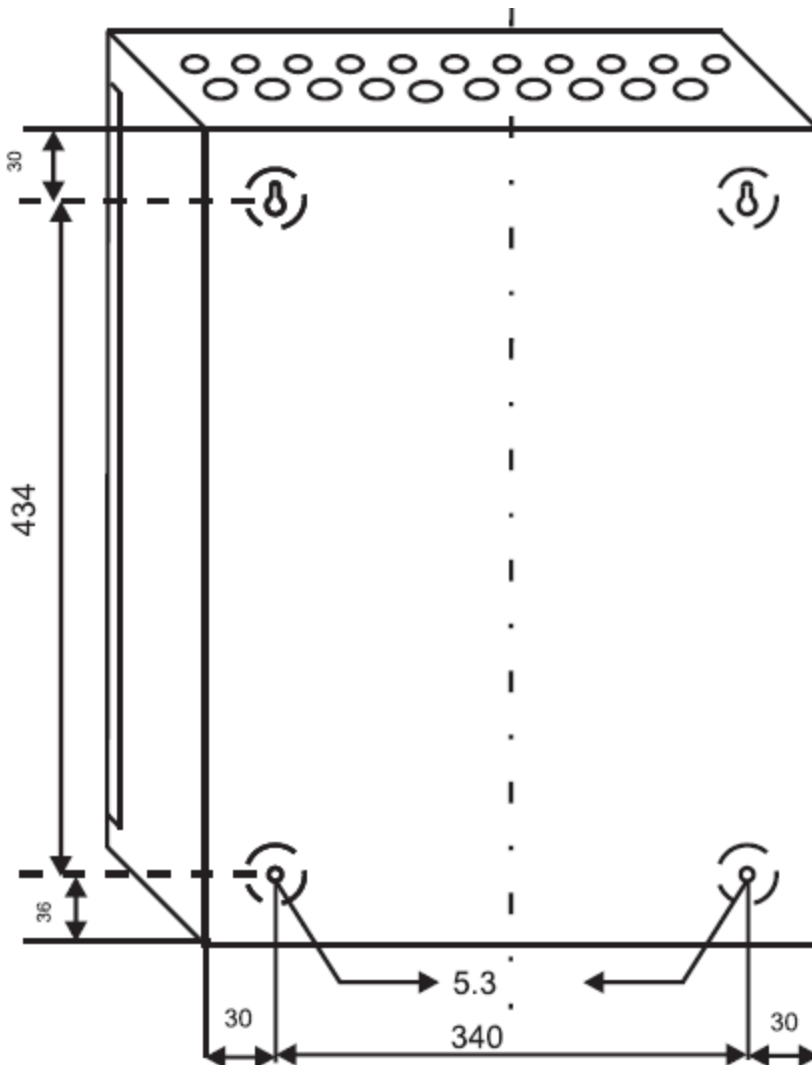


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Mechanical Specification:

Color	: White / Red / Black
Construction	: 16 Gauge (1.6 mm) CRCA sheet with powder-coated Finish
IP Rating	: IP50
Cable Entry	: 9x \varnothing 19mm Knockout in top of the cabinet 9x \varnothing 22.25mm Knockout in top of the cabinet
Weight	: 13 Kg

Mounting Diagram



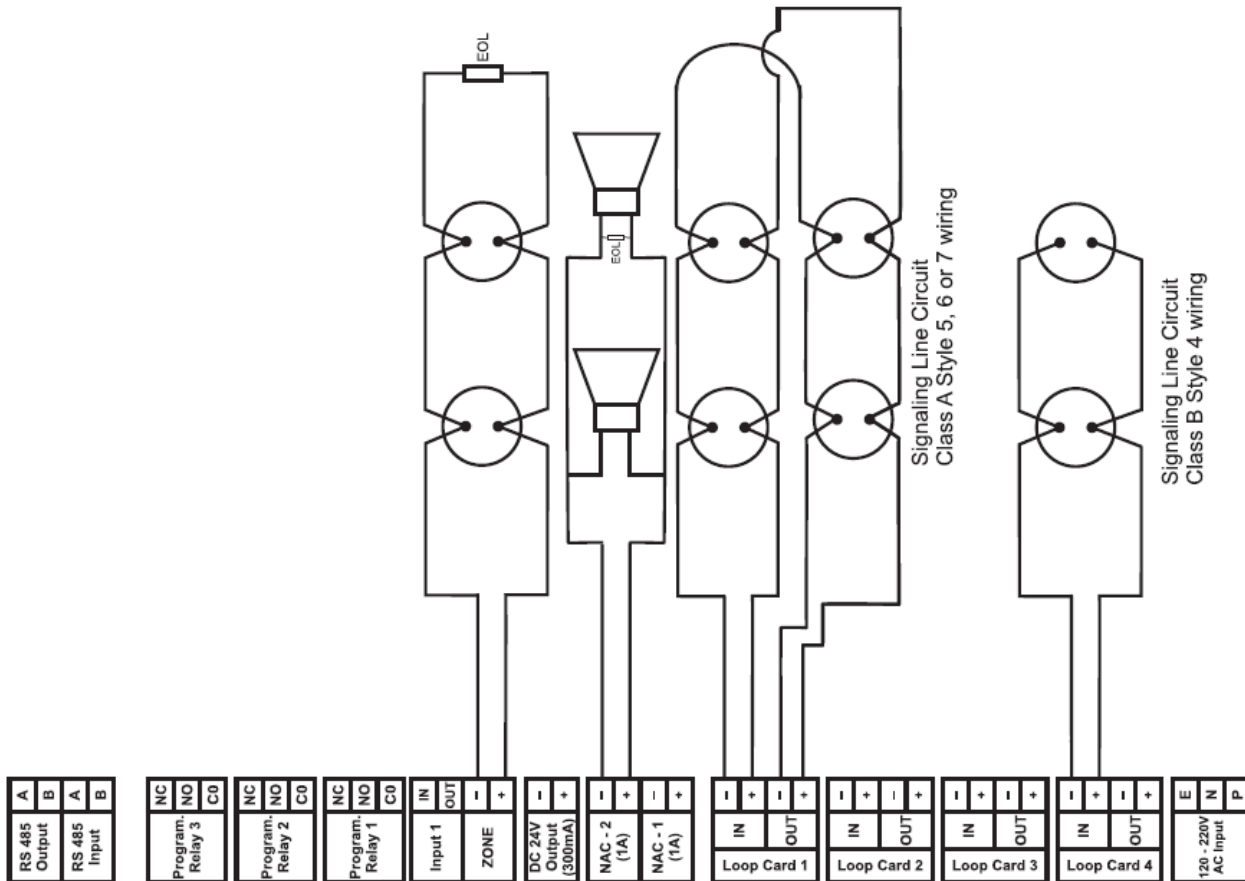
Note:- All Dimensions are in MM





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Wiring Diagram



Note:

- ⊙All the field wiring circuits are supervised
- ⊙All the field wiring circuits are Power limited except 110-220v A.C and Battery.

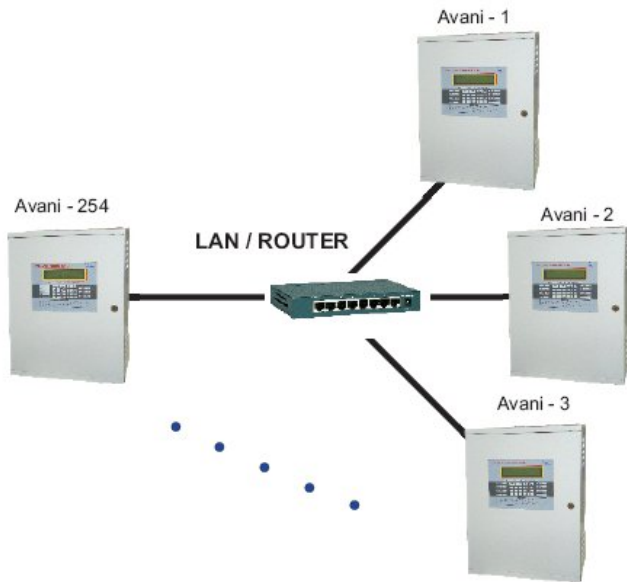
Initiating Device Circuit
Class B StyleB/C
End of Line - 4K7 1/2W
PN: RE4K7





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IP Based Network



Peer to Peer Network



Ordering Information:

Model	Loop
PRO Intelligent Addressable Fire Alarm Control Panel	1,2,3 & 4 Loop

W - White Color

R - Red Color

B - Black Color

