

AVANI 4 LOOP (RE4100)

Fire Alarm Control Panel



OVERVIEW

Avani is a compact, cost effective intelligent addressable 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 metal cabinet, provide a complete fire control system\ for most applications. The panel has maximum capability for 4 loop cards, which are plugged into the main circuit board. There is an option for remote and local programming of the control panel using AVANI upload/ download utility.



Avani

FEATURES

- ▶ As per UL 864, 9th Edition & NFPA 72
- ▶ Networkable
- ▶ User Friendly configuration
- ▶ Inbuilt conventional circuit
- ▶ Touch Key pad for user friendly operation
- ▶ Device / Detector wise configuration facility
- ▶ Auto Learning facility
- ▶ Programmable detector sensitivity
- ▶ 2000 Event storage with Real Time Check
- ▶ Up to 192 Grouping Facility
- ▶ Multiprotocol

OPTIONAL MODULE

- ▶ Auto Dialer / GSM Module
- ▶ Ethernet Module
- ▶ Printer Interface Module

ATTRIBUTES

- ▶ 40 X 4 Character LCD display
- ▶ Maximum 4 numbers of loop cards with Class A Style 5, 6 or 7/ Class B Style 4 wiring
- ▶ Maximum 159 devices per loop
- ▶ Day / Night Mode Facility
- ▶ USB 2.0 Interface for PC connectivity
- ▶ RS 485 Communication facility for Network / Repeater
- ▶ Programmable Auto Silence Facility
- ▶ Programmable Trouble Reminder Facility
- ▶ Programmable Silence Inhibit
- ▶ Two no's of Programmable Inputs
- ▶ Loop wise test facility
- ▶ Battery low visual warning with audible tone.
- ▶ Three programmable form C relay for fire, fault and supervisory
- ▶ Two no's of supervise notification appliance circuit

PRODUCT DATA SHEET

ELECTRICAL SPECIFICATION

PRIMARY POWER

120 / 220 VAC + 10% - 15%, 60 / 50Hz

OPERATING CONDITION

Operating Temperature 0-49° C/32-120°F
Relative Humidity 93± 2% RH (non - condens-
ing) at 32 ± 2° C/96 ± 3°F

SIGNAL LINE CIRCUIT

Loop card : 4 Nos Maximum
No Devices per loop : 159
Loop resistance : 40Ω (Max)
Loop capacitance : 0.6µf (Max)
Loop current : 300mA (Max)

PROGRAMMABLE INPUT CIRCUIT

No of inputs : 2
Normal Operating voltage : 4 - 8 VDC
Short Circuit current : 3mA Max.
Loop resistance : 100Ω Max
End of line resistor : 4K7, 1/2watt
Standby current : 1.25mA

D.C. OUTPUT

Supervised 24 VDC. 300mA Max.

STANDBY POWER

24V D.C (2NOS) Sealed Lead Acid Battery

CHARGING CIRCUIT

Charging Voltage 28V, ± 0.2V nominal
Charging current 1.2A (Max)

INITIATING DEVICE CIRCUIT

One Conventional zone class B style B/C oper.
Normal Operating voltage : 14 - 21 VDC
Alarm current : 15 - 30mA
Short Circuit current : 45mA Max.
Loop resistance : 100Ω Max
End of line resistor : 4K7, 1/2watt
Standby current : 7mA (2mA for det)

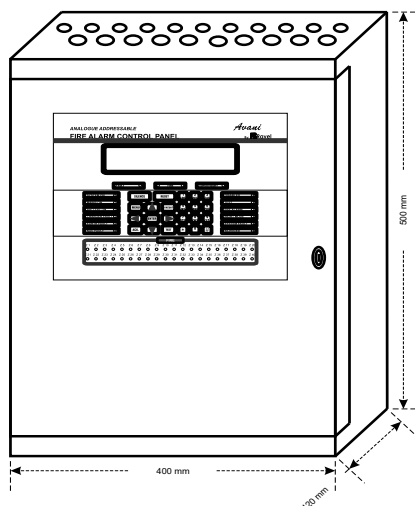
NOTIFICATION APPLIANCE CIRCUIT

Class B style - Y wiring
Operating Nominal voltage : 24 VDC Nominal
Current for Nacs : 2A (1A per circuit)
Line drop : 2.4V
End of line resistor : 4K7, 1/2watt

THREE PROGRAMMABLE C RELAYS

Relay Contact Rating: 2A @ 30VDC, 2A@30VAC
Power Factor: 0.6

G.A.Diagram:



Mounting Detail:

