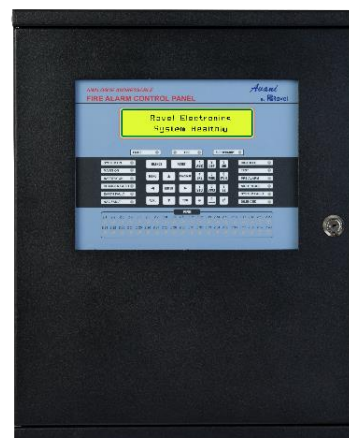


# AVANI

## ANALOGUE ADDRESSABLE FIRE ALARM CONTROL PANEL

### General

Avani is an analogue addressable having an extensive list of powerful features. The panel has maximum capacity for four loopcards plug in type. On board USB port, on board RS-485 connectivity and touch keypad. Each loop can support up to 254 devices of any combination and single panel shall support up to 1016 devices of any combination. Higher loop requirement can be catered by using the in built networking features of the Fire Alarm Control Panel. Modules & Ethernet connectivity optional connectivity of modbus converter & Ethernet is available.



### Features

- 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.
- Maintenance alert.
- Device type verification & Double Address Sensing.
- Earth fault annunciation facility at 0 ohms.
- Loop wise remote device test.
- 40 X 4 Characters LCD display.
- 5 IDC Loops (4 Addressable and 1 Conventional loop).
- 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 (field Programmable).
- RS 485 Communication facility for Network / Repeater
- RS232 Communication facility for thermal printers (optional)
- Programmable Auto Silence Facility.
- Programmable AC Loss Delay.
- Programmable Silence Inhibit.
- Battery low audio, visual warning.

- Two programmable Inputs for Evacuate, Remote Silence & Conventional Zone.
- Three programmable Form C relay for Fire, Fault and Supervisory.
- Two no's of Supervise Notification Appliance Circuits.

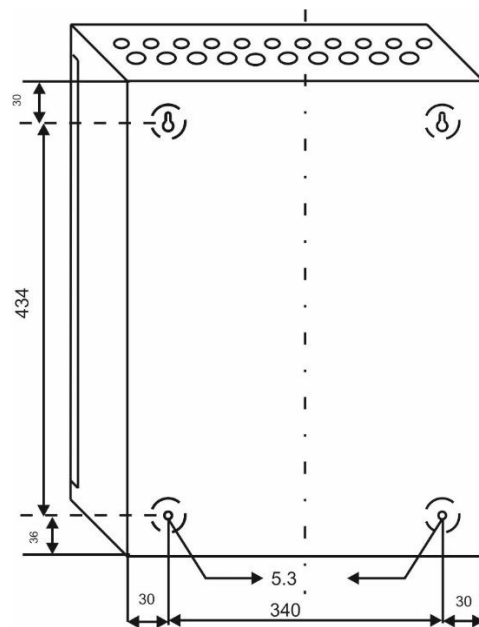
### Special Features

- UL Listed (9th Edition).
- Switched Mode Power Supply.
- Modular Construction, Serviceability.
- Networkable.
- Auto Resettable Fuse.
- Surge Protection.
- Battery polarity protection.
- 32 bit processor.
- Unique protocol feature for fast alarm response.
- Inbuilt conventional circuit.
- Alphanumeric 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.

## Specification

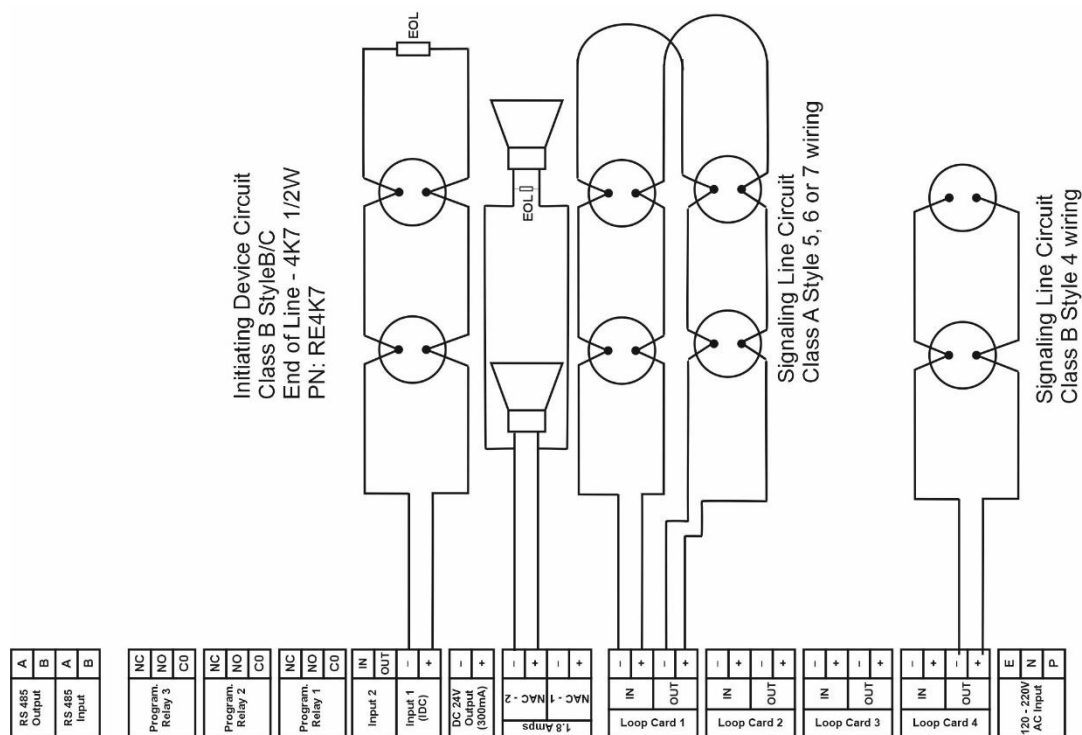
Electrical Specification		
<b>Primary Power</b>	120 / 220VAC + 10% – 15%, 60 / 50 Hz, 450W	
<b>Standby Power</b>	24VDC (2 No's of 12V 40 Ah (max), built-in for 14Ah) sealed lead acid battery	
<b>Operating Condition</b>	Operating temperature 0 – 49° C / 32 – 120° F Relative humidity 93 ± 2% RH (non-condensing) at 32 ± 2° C / 90 ± 3° F	
<b>Charging Circuit</b>	Charging voltage 28 V, ± 2% nominal Charging current 1.2A (max)	
<b>Notification Appliance Circuits</b>	No of circuits	2
	Wiring style	Class B, Style Y
	Operating Nominal Voltage	24 VDC Nominal
	NAC-1 & NAC-2 Current	0.9A per circuit (max)
	Line drop	2.4V
	EOL resistor	4K7, ½ watt
<b>DC Output</b>	Quantity	1 No
	Voltage	24VDC
	Current	300mA (max)
<b>Programmable Relays</b>	Type	Form C
	No of Relays	3
	Relay contact rating	2A @ 30 VDC, 0.5A @ 125 VAC
	Power factor	1.0
<b>Signaling Line Circuits</b>	Quantity	4 No's (max)
	No. of devices per loop	254 No's
	Loop resistance	40 Ω (max)
	Loop capacitance	0.6 µf (max)
	Loop current	300 mA (max)
<b>Initiating Device Circuits</b>	Wiring style	Class B, Style B/C
	No of conventional zone	1
	Normal operating voltage	14 – 21 VDC
	Alarm current	15 – 30 mA
	Short circuit current	45 mA (max)
	Loop resistance	100 Ω (max)
	EOL Resistor	4K7, ½ watt
	Standby current	7 mA (2 mA for detectors)
<b>Programmable Input Circuit</b>	Quantity	1 No
	Normal operating voltage	4 – 8 VDC
	Short circuit current	3 mA (max)
	Loop resistance	100 Ω (max)
	EOL Resistor	4K7, ½ watt
	Standby current	1.25 mA
<b>RS 485</b>	Baud rate	19200.
	Connector	RS 485
	Cable Length	1200m (screened cable recommended)
<b>Terminal Block</b>	Plugable Type	2.5 sq.mm Max.
Mechanical Specification		
<b>Dimensions</b>	400W x 500H x 120D (mm)	
<b>Color</b>	White / Red / Black	
<b>IP rating</b>	IP 50	
<b>Construction</b>	16 Gauge (1.6 mm) CRCA sheet with powder-coated finish	
<b>Cable Entry</b>	8 x Ø19mm knockout on top of the cabinet	
	8 x Ø 22.25mm knockout on top of the cabinet	
<b>Weight</b>	13 kg	

## Dimensions



Note:- All Dimensions are in MM

## Wiring Configuration



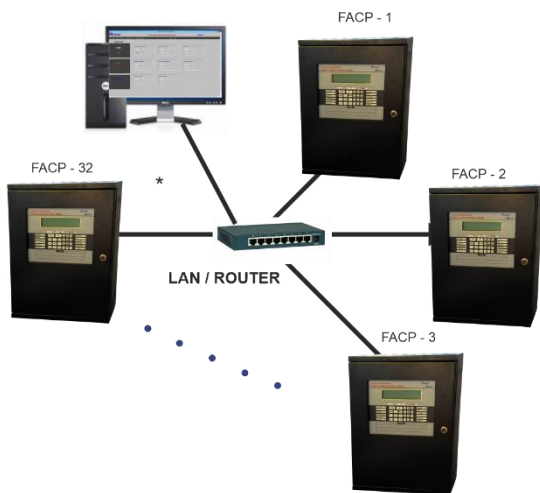
Note:

- ⊙ All the field wiring circuits are supervised
- ⊙ All the field wiring circuits are Power limited except 120-220 VAC and Battery.

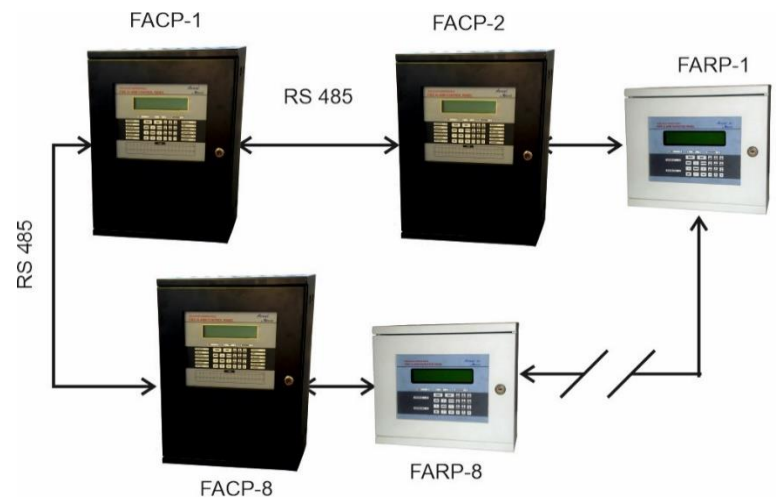
Input 1

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

## IP Based Network



## Peer-to-Peer Network



## Compatible Devices

Models	Description
<i>RE-317D-SHL</i>	Photoelectric Multi sensor Detector
<i>RE-317D-SL</i>	Photoelectric Smoke Detector
<i>RE-317D-HL</i>	Heat Detector
<i>RE-717MC</i>	Control Module
<i>RE-717MM</i>	Monitor Module
<i>RE-717MR</i>	Relay Module
<i>RE-717MX</i>	Input Output Module
<i>RE-717MZ</i>	Zone Interface Module
<i>RE-717MI</i>	Isolator Module
<i>RE-717M</i>	Manual Call Point
<i>RE-AMB</i>	Modbus Converter
<i>RE-517ME</i>	Ethernet Module
<i>RE-717PT</i>	Printer Module
<i>Avani – RP</i>	Fire Alarm Repeater Panel
<i>RE-314BI</i>	Isolator Base
<i>RE-515MP-A4</i>	Mimic Display System – 32 LED Panel (max)
<i>RE-515MP-A3</i>	Mimic Display System – 64 LED Panel (max)
<i>RE-515MP-A2</i>	Mimic Display System – 128 LED Panel (max)
<i>RE-515MP-AX</i>	Mimic Display System – 512 LED Panel (max)
<i>RE-4K7</i>	End of Line Resistor
<i>RE-716P1T</i>	Manual Pull Station Single Action
<i>RE-716P1TLP(R)</i>	Manual Pull Station Dual Action
<i>RE-717PMB</i>	Back Box with Monitor Module
<i>Avani – SOFT</i>	Graphics Software
<i>Avani – CMS</i>	Central Monitoring Software
<i>RE-ACT</i>	Addressable Configuration Tool

## Ordering Information

Model	Loop
Avani – W / R / B	Analogue Addressable Fire Alarm Control Panel (expandable upto 4 loop cards)
Avani LC	Analogue addressable loop card

**Note:**

W – White color

R – Red Color

B – Black Color

### India

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