

# AVANI *db*

## ANALOGUE ADDRESSABLE FIRE ALARM PANEL

### General

The Avani *db* is a cost effective, intelligent addressable fire alarm control panel having an extensive list of powerful features. The power supply, 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 two loops, which are plugged into the main circuit board. There is an option for local programming of the control panel using configuration software, upload/download utility.



### Special Features

- Switched Mode Power Supply.
- Modular Construction, Servicable.
- Auto Resettable Fuse.
- Surge Protection.
- Battery polarity and deep discharge protection.
- Unique protocol feature for fast alarm response.
- Touch Keypad for user friendly operation.
- Auto learning facility.
- Loop powered sounder & sounder-strobe compatible

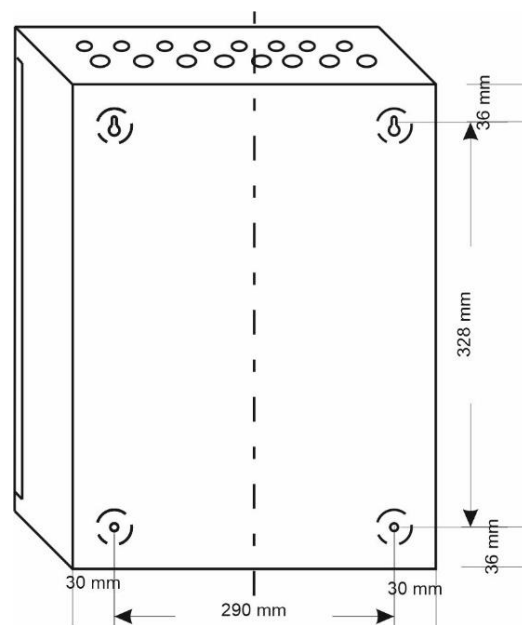
### Features

- Operates on 120 to 220V AC, 60 / 50 Hz.
- Battery Backup 24V DC with Built in charger.
- 40 x 4 Characters LCD display.
- Touch keypad for user friendly operation.
- Loop with Class A or Class B wiring.
- Maximum 159 Devices including 32 Loop Sounder & Sounder - strobe.
- Upto 192 Grouping Facility.
- Auto learning facility.
- Device / Detector wise Configuration facility.
- 2000 Event storage with Real Time Clock.
- USB 2.0 Interface for PC connectivity.
- RS 485 communication for repeater.
- Maximum 8 repeaters can be connected.
- Two Programmable Form C relay for fire and supervisory and One Form C relay for fault.
- 24V DC output.
- One Supervised Notification Appliance Circuit.(NAC).

## PC Specification

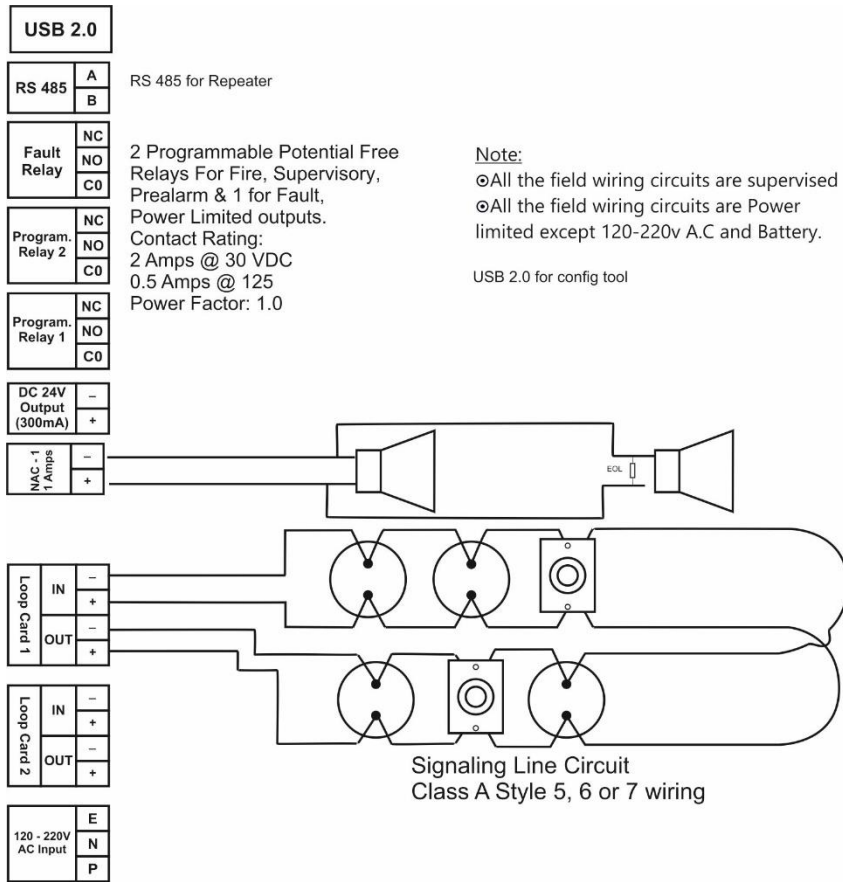
Electrical Specification		
<b>Primary Power</b>	120 / 220VAC + 10% -15%, 60 / 50 Hz. 100W	
<b>Standby Power</b>	24V D.C (2 No's of 12V, 7 Ah (max)) Sealed Lead acid battery	
<b>Operating Condition</b>	Operating Temperature 0 - 49° C / 32-120° F. Relative Humidity 93 ± 2% RH (non-condensing) at 32 ±2° C / 96 ±3° F.	
<b>Charging Circuit</b>	Charging Voltage 28 V, ±0.5V Nominal Charging Current 0.8A (max)	
<b>Signaling Line Circuits</b>	Quantity	2 No's (max)
	No. of devices per loop	127 + 32 (LS)
	Loop resistance	20 Ω (max)
	Loop capacitance	0.3 µf (max)
	Loop current	300 mA (max)
<b>Notification Appliance Circuits</b>	Wiring style	Class B, Style Y
	Operating Nominal Voltage	24 VDC Nominal
	Current for NAC's	1.0A
	Line drop	2.4V
	EOL resistor	4K7, ½ watt
<b>DC Output</b>	Supervised 24VDC, 300mA (max)	
<b>Programmable Relays</b>	Type	Form C
	No of Relays	3
	Relay contact rating	2A @ 30 VDC, 0.5A @ 125 VAC
<b>RS485 Serial Port</b>	Baud rate	19200
	Connector	RS485 – A-B Terminal Block
	Maximum cable length	1200m (1.5 sq.mm screened calbe)
Mechanical Specification		
<b>Dimensions</b>	(350W X 400H X 100D)mm	
<b>Color</b>	White / Red / Black	
<b>Construction</b>	18 Gauge (1.2 mm) CRCA sheet with powder-coated Finish	
<b>IP Rating</b>	IP50	
<b>Cable Entry</b>	8xØ19mm Knockout in top of the cabinet	
	8xØ22.25mm Knockout in top of the cabinet	
<b>Weight</b>	10 Kg	

## Dimensions



Note:- All Dimensions are in MM

# Wiring Configuration



# Compatible Devices

Models	Description
RE-317D-SHL	Photoelectric & Heat Detector
RE-317D-SL	Photoelectric Smoke Detector
RE-317D-HL	Heat Detector
RE-717MC	Control Module
RE-717MM	Monitor Module
RE-717MR	Relay Module
RE-717MI	Isolator Module
RE-717M	Manual Call Point
RE-314BI	Isolator Base
RE-354BS	Loop Sounder Base
RE-24LS	Loop Powered Sounder
RE-4K7	End of Line Resistor
RE-717SO	Loop powered Addressable Sounder
RE-717SS	Loop powered Addressable Sounder & Strobe

## Compatible Panel

Model	Description
Avani db RP	Addressable Repeater Panel

## Ordering Information

Model	Loop	Description
Avani db	1 & 2 Loop	Addressable Fire Alarm Control Panel

**Note:**

W – White color

R – Red Color

B – Black Color

### India

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