AVANI *db*
ANALOGUE ADDRESSABLE FIRE ALARM CONTROL PANEL

General

The Avani *db* is an 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 addressing and easy swapping.
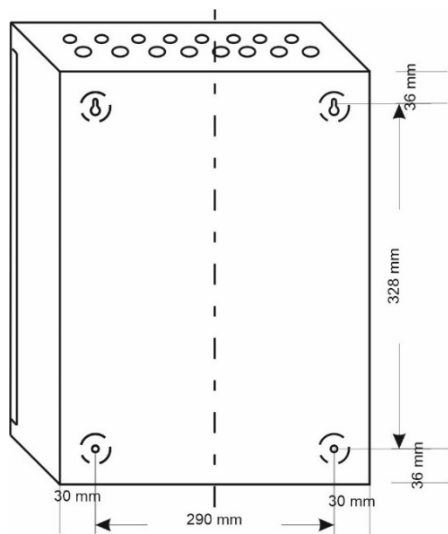- Loop powered sounder & sounder-strobe compatible

Features

- Operates on 120 - 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.
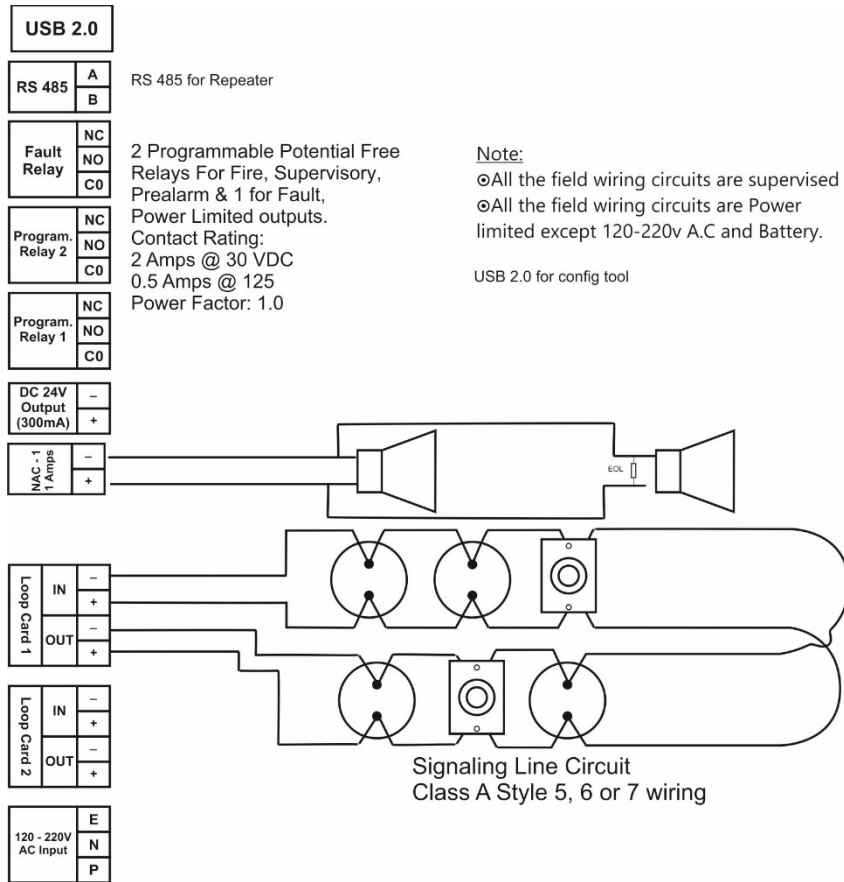- Supervised Notification Appliance Circuit.(NAC).

PC Specification

Electrical Specification	
Primary Power	120 - 220VAC + 10% -15%, 60 / 50 Hz. 100W
Standby Power	24V D.C (2 No's of 12V, 7 Ah (max)) Sealed Lead acid battery
Operating Condition	Operating Temperature 0 - 49° C / 32-120° F. Relative Humidity 93 ± 2% RH (non-condensing) at 32 ±2° C / 96 ±3° F.
Charging Circuit	Charging Voltage 28 V, ±0.5V Nominal Charging Current 0.8A (max)
Signaling Line Circuits	Quantity 2 No's (max) No. of devices per loop 127 + 32 (Loop (sounder / sounder cum strobe)) Loop resistance 20 Ω (max) Loop capacitance 0.3 μf (max) Loop current 300 mA (max)
Notification Applicance Circuits	Wiring style Class B, Style Y Operating Nominal Voltage 24 VDC Nominal Current 1.0A (max) Line drop 2.4V EOL resistor 4K7, ½ watt
DC Output	24VDC, 300mA (max)
Programmable Relays	Type Form C No of Relays 3 (1-Default Fault Relay) Relay contact rating 2A @ 30 VDC, 0.5A @ 125 VAC
RS485 Serial Port	Baud rate 19200 Connector RS485 – A-B Terminal Block Maximum cable length 1200m (1.5 sq.mm twisted pair cable)
Mechanical Specification	
Dimensions	(350W X 400H X 100D)mm
Color	White / Red
Construction	18 Gauge (1.2 mm) CRCA sheet with powder-coated Finish
IP Rating	IP50
Cable Entry	8xø19mm Knockout in top of the cabinet 8xø22.25mm Knockout in top of the cabinet
Weight	10 Kg

Dimensions

Note:- All Dimensions are in MM

Wiring Configuration

Compatible Devices

Models	Description
RE–317D–SHL	Multi Sensor 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-717MZ	Zone Interface Module
RE-717MX	Input Output 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	Description
Avani db	Analogue Addressable Fire Alarm Control Panel expandable upto 2 loop

Note:
W – White color
R – Red Color

*Ravel reserve the right to change the specification without prior notice.

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