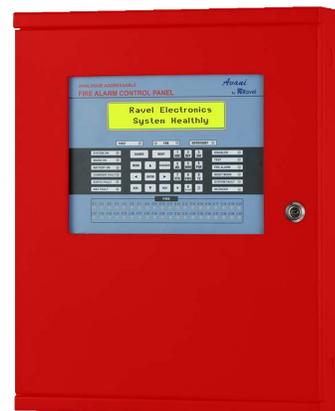


# AVANI

## 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 supports upto 254 devices of any combination and single panel shall support upto 1016 devices of any combination. Higher loop requirement can be catered by using the in built networking features of the Fire Alarm Control Panel. There is an optional connectivity for modbus and ethernet.



### Features

- Device / Detector wise configuration facility.
- 2000 Event Storage with Real Time Clock.
- Upto 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.
- RS 232 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.

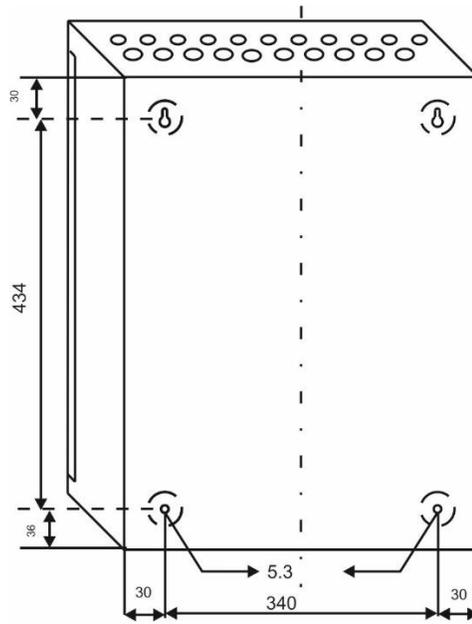
### Special Features

- UL Listed (9<sup>th</sup> 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

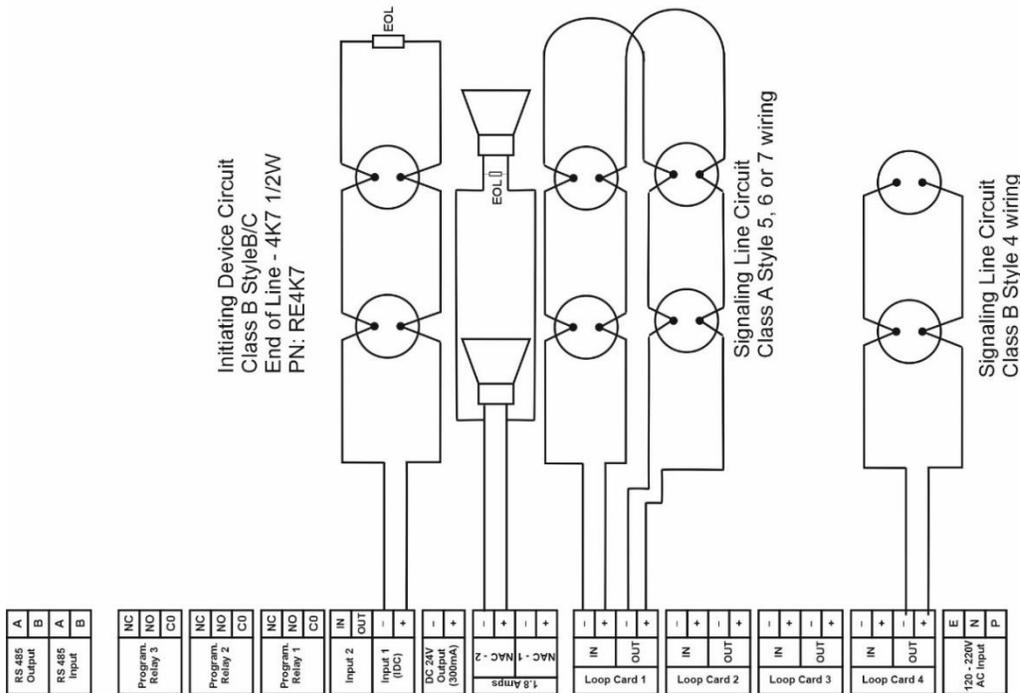
| Electrical Specification               |   |                             |
|--|---|-----------------------------|
| <b>Primary Power</b>                   | 120 / 220VAC + 10% – 15%, 60 / 50 Hz, 450W  |                             |
| <b>Standby Power</b>                   | 24VDC (2 No's of 12V 40 Ah (max), built-in for 14Ah) sealed lead acid battery   |                             |
| <b>Operating Condition</b>             | Operating temperature 0 – 49° C / 32 – 120° F<br>Relative humidity 93 ± 2% RH (non-condensing) at 32 ± 2° C / 90 ± 3° F |                             |
| <b>Charging Circuit</b>                | Charging voltage 28 V, ± 2% nominal<br>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 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>                          | Nodes   | 16 (including 8 Repeaters)  |
|  | Circuit Length  | 1200m                       |
|  | Wire Type   | Shielded twisted pair cable |
| <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>                     | 9 x Ø19mm knockout on top of the cabinet<br>9 x Ø 22.25mm knockout on top of the cabinet                                |                             |

# Dimensions



Note:- All Dimensions are in MM

# Wiring Configuration



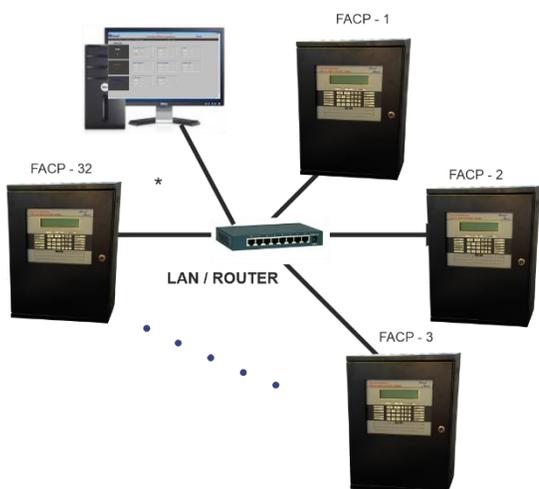
**Note:**

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

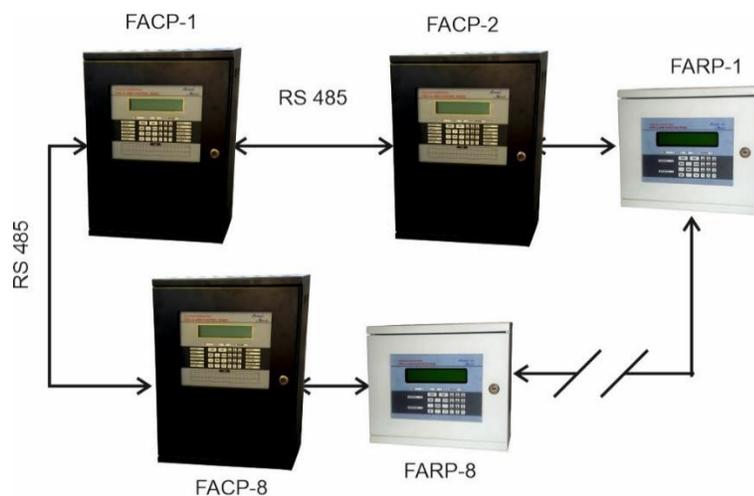
**Input 1**

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>      | UL listed Manual Pull Station Single Action |
| <i>RE-716P1TLP(R)</i> | UL listed 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

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# RE-317D-SL

## ANALOGUE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR

### General

The RE 317D-SL addressable photoelectric smoke detectors are designed to work with Avani Panel. These detectors are low profile and have dual LED's for 360° visual indication. The LED's are blinking in normal operating condition whereas the steady state indicates fire status. It has an unique chamber designed to sense smoke produced by wide range of sources of combustion. The detectors sensitivity can be programmed through fire alarm control panel. It has a unique drift compensation where the detector adjusts its normal reference based on environment conditions.

### Features

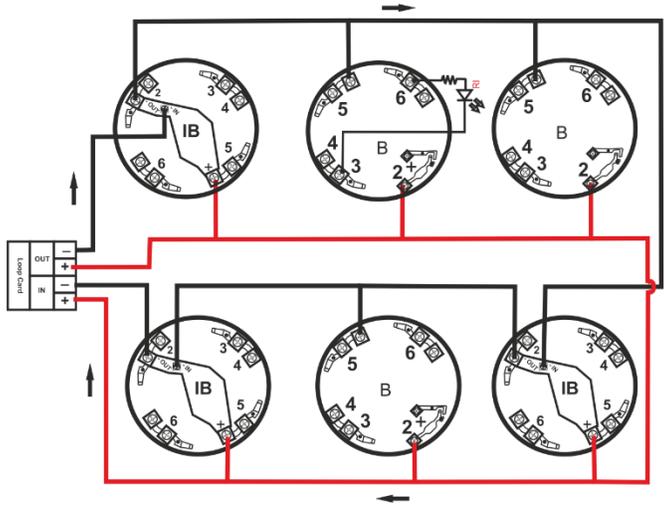
- UL listed.
- Dual LED's for 360° visibility.
- Advanced detection and communication protocol.
- Easy installation and maintenance.
- Sleek low-profile housing design.
- Regular 100mm base.
- Address setting by 8 digit DIP switch.



### Specification

| Electrical Specification     |   |
|------------------------------|---|
| <i>Operating Voltage</i>     | 17 ~ 28V DC.  |
| <i>Reset Voltage</i>         | Less than 3V.   |
| <i>Standby Current</i>       | 500 μA.   |
| <i>Start up Time</i>         | 30s.  |
| <i>Alarm Current</i>         | 5 mA .  |
| <i>Remote Output</i>         | 2mA maximum open collector.   |
| <i>Smoke Sensitivity</i>     | (2.12 ± 0.61) % obs/ ft<br>(High: 1.1% obs/ft; Medium: 1.4% obs/ft; Low: 2.3% obs/ ft). |
| <i>Air Velocity</i>          | 0 – 4000 fpm.   |
| <i>Detector Spacing</i>      | 9 meters  |
| <i>Operating Temperature</i> | -10° C to 37.8° C.  |
| <i>Storage Temperature</i>   | -10° C to 60° C.  |
| <i>Humidity</i>              | 0 – 95% RH, non-condensing.   |
| Mechanical Specification     |   |
| <i>Dimension</i>             | 46 H x 100 D ( mm)  |
| <i>Weight</i>                | 150 g with base   |
| <i>IP Rating</i>             | IP-42   |

## Wiring Diagram



**Note:**

RI-Response Indicator  
 B – Standard Base  
 IB – Isolator Base

## Compatible Device

| Model           | Description   |
|-----------------|---------------|
| <i>RE-314B</i>  | Normal Base   |
| <i>RE-314BI</i> | Isolator Base |

## Compatible Panel

| Model           | Description   |
|-----------------|---|
| <i>Avani</i>    | Analogue addressable FACP expandable upto 4 loop          |
| <i>Avani db</i> | Addressable FACP expandable upto 2 loop with loop sounder |
| <i>Avani XI</i> | Analogue Addressable Fire Alarm Panel Upto 8 Loop         |
| <i>RE-8200</i>  | Analogue addressable FACP expandable upto 8 loop          |
| <i>RE-4100</i>  | Addressable FACP expandable upto 4 loop with loop sounder |

## Ordering Information

| Model      | Description                                       |
|------------|---|
| RE-317D-SL | Analogue Addressable Photoelectric Smoke Detector |

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# RE-317D-HL

## ANALOGUE ADDRESSABLE HEAT DETECTOR

### General

RE 317D-HL addressable heat detectors are designed to work with Avani Panel. These detectors are low profile and have dual LED's for 360° visual indication. The LED's are blinking in normal operating condition whereas the LED's in steady state indicate fire status.

RE 317D-HL is a fixed cum rate of rise heat detector using a thermistor. These detectors will raise an alarm when the detector reaches 59° C(Fixed) or when the change in temperature exceeds the rate of rise of 11° C / min.

### Features

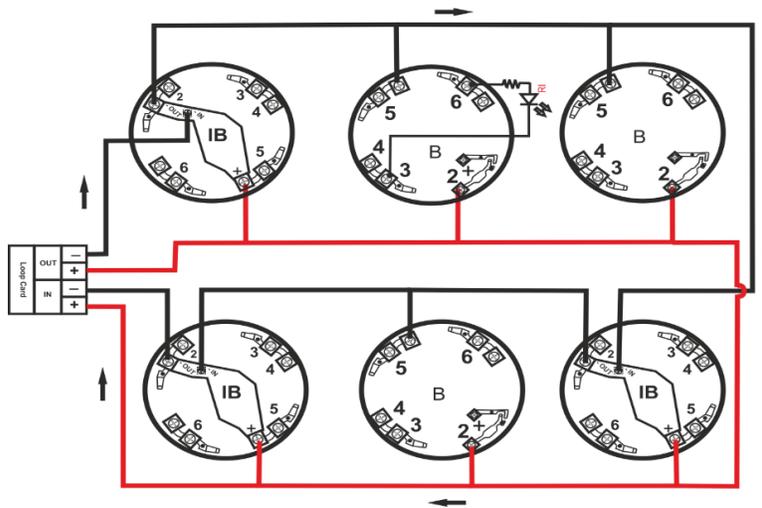
- UL listed.
- Dual LED's for 360° visibility.
- Advanced detection and communication protocol.
- Easy installation and maintenance.
- Sleek low-profile housing design.
- Regular 100mm base.
- Address setting by 8 digit DIP switch.



### Specification

| Electrical Specification            |                             |
|-------------------------------------|-----------------------------|
| <i>Operating Voltage</i>            | 17 ~ 28V DC.                |
| <i>Reset Voltage</i>                | Less than 3V.               |
| <i>Standby Current</i>              | 500 µA.                     |
| <i>Start up Time</i>                | 30s.                        |
| <i>Alarm Current</i>                | 5 mA .                      |
| <i>Remote Output</i>                | 2mA maximum open collector. |
| <i>Detector Spacing</i>             | 9 meters.                   |
| <i>Fixed Temperature</i>            | 59° C (138° F).             |
| <i>Rate of Raise of Temperature</i> | 11.1° C / min (20° F/min).  |
| <i>Operating Temperature</i>        | -10° C to 37.8° C           |
| <i>Storage Temperature</i>          | -10° C to 60° C.            |
| <i>Humidity</i>                     | 0 - 95% RH, non-condensing. |
| Mechanical Specification            |                             |
| <i>Dimension</i>                    | 46 H x 100 D ( mm)          |
| <i>Weight</i>                       | 150 g with base             |
| <i>IP Rating</i>                    | IP-42                       |

## Wiring Diagram



**Note:**

RI-Response Indicator  
 B – Standard Base  
 IB – Isolator Base

## Compatible Device

| Model           | Description   |
|-----------------|---------------|
| <i>RE-314B</i>  | Normal Base   |
| <i>RE-314BI</i> | Isolator Base |

## Compatible Panel

| Model           | Description   |
|-----------------|---|
| <i>Avani</i>    | Analogue addressable FACP expandable upto 4 loop          |
| <i>Avani db</i> | Addressable FACP expandable upto 2 loop with loop sounder |
| <i>Avani XI</i> | Analogue Addressable Fire Alarm Panel Upto 8 Loop         |
| <i>RE-8200</i>  | Analogue addressable FACP expandable upto 8 loop          |
| <i>RE-4100</i>  | Addressable FACP expandable upto 4 loop with loop sounder |

## Ordering Information

| Model      | Description                        |
|------------|------------------------------------|
| RE-317D-HL | Analogue Addressable Heat Detector |

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# RE-317D-SHL

## ANALOGUE ADDRESSABLE MULTI DETECTOR

### General

RE 317D-SHL addressable multi detectors are designed to work with Avani Panel. These detectors are low profile and have dual LED's for 360° visual indication. The LED's are blinking in normal operating condition whereas the LED's in steady state indicate fire status.

The fixed cum rate of rise heat detector works using a thermistor. These detectors will raise an alarm when the detector reaches 59°C (Fixed) or when the change in temperature exceeds the rate of rise of 11°C / min. It has a unique chamber designed to sense smoke produced by wide range of sources of combustion. The detectors sensitivity can be programmed via FACP. It has a unique drift compensation feature wherein the detector adjusts its normal reference based on environment conditions.

### Features

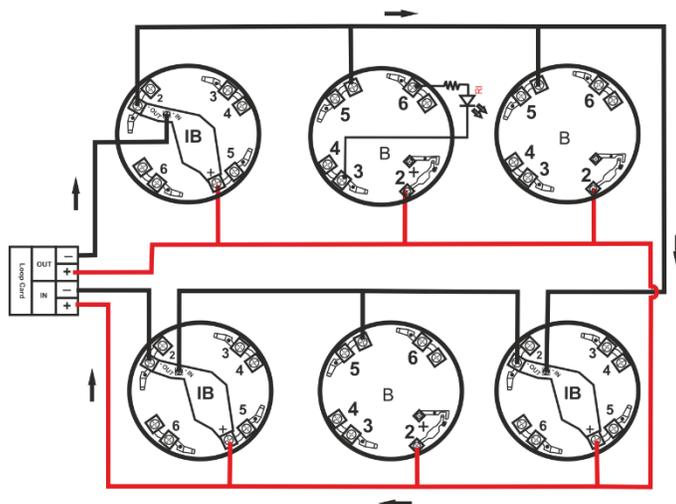
- UL listed.
- Dual LED's for 360° visibility.
- Advanced detection and communication protocol.
- Easy installation and maintenance.
- Sleek low-profile housing design.
- Regular 100mm base.
- Maximum 254 address setting by 8 digit DIP switch.



### Specification

| Electrical Specification            |  |
|-------------------------------------|--|
| <b>Operating Voltage</b>            | 17 ~ 28V DC.   |
| <b>Reset Voltage</b>                | Less than 3V.  |
| <b>Standby Current</b>              | 500 µA.  |
| <b>Start up Time</b>                | 30s.   |
| <b>Alarm Current</b>                | 5 mA .   |
| <b>Remote Output</b>                | 2mA maximum open collector.  |
| <b>Thermal Rating</b>               | 59° C (138° F).  |
| <b>Rate of Raise of Temperature</b> | 11.1° C / min (20° F/min).   |
| <b>Smoke Sensitivity</b>            | (2.12 ± 0.61) % obs/ ft. (High: 1.1; Medium: 1.4; Low: 2.3) % obs/ft |
| <b>Air Velocity</b>                 | 0 – 4000 fpm   |
| <b>Detector Spacing</b>             | 9 meters   |
| <b>Operating Temperature</b>        | -10° C to 37.8° C  |
| <b>Storage Temperature</b>          | -10° C to 60° C.   |
| <b>Humidity</b>                     | 0 – 95% RH, non-condensing.  |
| Mechanical Specification            |  |
| <b>Dimension</b>                    | 46 H x 100 D ( mm)   |
| <b>Weight</b>                       | 150 g with base  |
| <b>IP Rating</b>                    | IP-42  |

## Wiring Diagram



### Note:

RI-Response Indicator

B – Standard Base

IB – Isolator Base

## Compatible Device

| Model    | Description   |
|----------|---------------|
| RE-314B  | Normal Base   |
| RE-314BI | Isolator Base |

## Compatible Panel

| Model    | Description   |
|----------|---|
| Avani    | Analogue addressable FACP expandable upto 4 loop          |
| Avani db | Addressable FACP expandable upto 2 loop with loop sounder |
| Avani XI | Analogue Addressable Fire Alarm Panel Upto 8 Loop         |
| RE-8200  | Analogue addressable FACP expandable upto 8 loop          |
| RE-4100  | Addressable FACP expandable upto 4 loop with loop sounder |

## Ordering Information

| Model       | Description  |
|-------------|--|
| RE-317D-SHL | Analogue Addressable Photoelectric & Heat Detector |

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# RE-717PMB

## BACK BOX WITH MONITOR

### General

RE-717PMB pull station back box is compliant with latest standards and designed to interface Ravel addressable Fire Alarm Control Panel. DIP switches are provided for addressing the device.

### Features

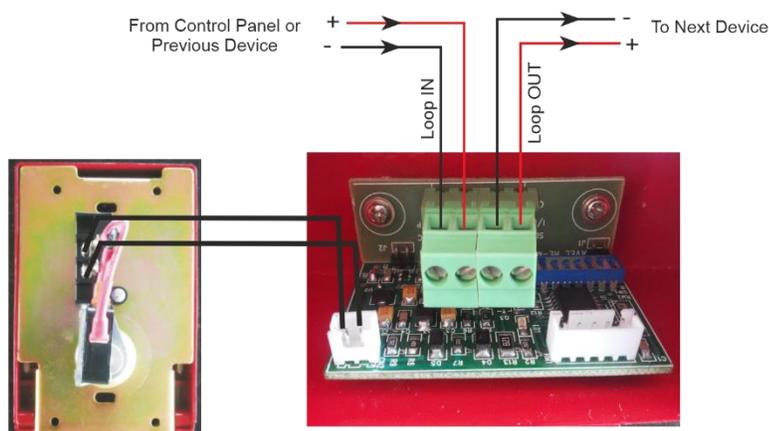
- Modular Construction
- Analogue Communication with the panel.
- Module Addressing by 8 way DIP switches.
- Low Standby Current.
- Available with suitable back boxes.



### Specification

|                            | Electrical Specification                             |
|----------------------------|--|
| <i>Operating Voltage</i>   | 17V - 28V DC   |
| <i>Alarm Current</i>       | 2.5 mA Max.(Latched)                                 |
| <i>Standby Current</i>     | 0.5 mA   |
| <i>Loop Impedance</i>      | 40 Ohms  |
| <i>Temperature Range</i>   | 0°C to 49°C / 32°C- 120°F                            |
| <i>Storage Temperature</i> | 0°C to 60°C  |
| <i>Humidity</i>            | 93 ± 2% RH (non-condensing) at 32 ± 2° C / 90 ± 3° F |
| <i>Dimensions</i>          | 84W x 124L x 54D in mm                               |
| <i>Weight</i>              | 480 grams  |

## Wiring Diagram



## Compatible Panel

| Model             | Description                            |
|-------------------|--|
| <i>Avani</i>      | Analogue Addressable Fire Alarm System |
| <i>Avani DB</i>   | Analogue Addressable panel             |
| <i>Avani XL</i>   | Addressable Fire Alarm Panel           |
| <i>RE-716 P1T</i> | Manual Pull Station                    |

## Ordering Information

| Model     | Description                           |
|-----------|---------------------------------------|
| RE-717PMB | Back box for Addressable Pull Station |

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# RE-716SS

## SOUNDER CUM STROBE

### General

RE-716SS sounder cum strobe provides an efficient and cost-effective way to meet various international standards such as NFPA72 (2016 edition). Strobe light consists of Hybrid LED. It can be flush / ceiling mounted with / without back box.



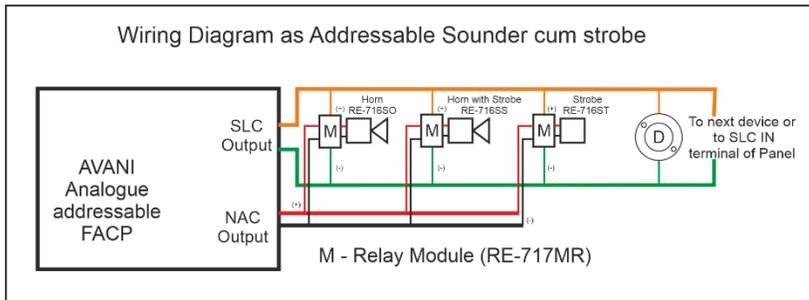
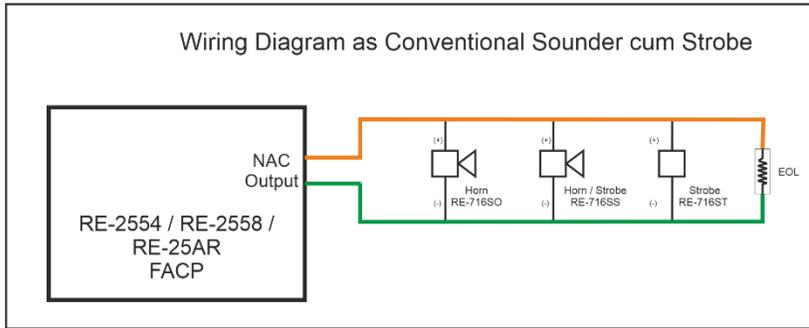
### Features

- UL 1971,ULC-S525,UL 464,ULC-S526.
- Low Current Draw.
- Flexible optic design to meet the light dispersion.
- 4 candela settings:15/30/75/110cd output.
- 2 audible tone settings: Continuous/Temporal 3.
- Slim and Sleek.
- They are used in Fire, Burglar & Emergency Alarm System.

### Specification

|                                 | Electrical Specification                 |
|---------------------------------|--|
| <i>Light Source &amp; Color</i> | High power cool white LED                |
| <i>Pulse Duration</i>           | 20ms                                     |
| <i>Max Current Draw(mA)</i>     | 67 – 93mA                                |
| <i>Flash Rate</i>               | 1 flash per second                       |
| <i>Operating Voltage</i>        | 24VDC(16-33VDC) / FWR                    |
| <i>Sounder Output</i>           | 75dB to 85 dB                            |
| <i>Mounting Options</i>         | Standard 4" * 4" back box                |
| <i>Dimension</i>                | 5.5"L *4.7"W *2.0"D(140mmL*120mmW*51mmD) |
| <i>Wiring</i>                   | 2-Wire Type                              |
| <i>Screw Terminals</i>          | #12 to #18 AWG wires                     |

## Wiring Details



## Compatible Panel

| Model        | Description                                   |
|--------------|---|
| AVANI        | Analogue Addressable Fire Alarm Control Panel |
| RE-25AR      | Agent Release Panel                           |
| RE-2558/2554 | 4 & 8 Zone Fire Alarm Control Panel           |

## Ordering Information

| Model    | Description        |
|----------|--------------------|
| RE-716SS | Sounder Cum Strobe |

### India

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Perungudi, Chennai – 96, India.  
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RAVEL AMERICAS INC.,  
2855 NW 112<sup>th</sup> Ave ST#2 Miami,  
Doral, Florida 33172, USA.

# RE-717MC

## ANALOGUE ADDRESSABLE CONTROL MODULE

### General

RE-717MC Control Module is the remote switching device to control 24V operating devices like Bells, Sounders, Strobes, etc. The required supply is drawn from a 24V power supply unit. The RED blinking LED indicates normal operating conditions and the steady state LED for activated conditions. DIP switches are provided for addressing of the module. The output circuit is supervised for faulty condition.

### Special Features

- Indian Manufacturer - International Standard.
- UL-Listed (9th Edition).
- CE Approved.
- Modular Construction.

### Features

- Supervised a Class 'B' Style 'Y' output circuit.
- Module Status by RED LED.
- Analogue Communication with the panel.
- Module Addressing by 8 way DIP switches.
- Low Standby Current.
- Available with suitable back boxes.



### Specification

| Electrical Specification         |  |
|----------------------------------|--|
| <b>Operating Voltage</b>         | 24 VDC Nominal.                                    |
| <b>Current Draw</b>              | 2 mA Max.(Latched)                                 |
| <b>Standby Current</b>           | 0.5 mA   |
| <b>End of Line Resistor</b>      | 47K Ohms   |
| <b>Loop Impedance</b>            | 40 Ohms  |
| <b>Line Loss</b>                 | 4 VDC Max  |
| <b>External Supply Voltage</b>   | Regulated 24V                                      |
| <b>Max. Output Current Drive</b> | 1 Amps.(Supervised)                                |
| <b>Operating Temperature</b>     | 0°C to 49°C / 32°- 120°F                           |
| <b>Storage Temperature</b>       | 0°C to 60°C  |
| <b>Relative Humidity</b>         | 93 ± 2% RH (non-condensing) at 32 ±2° C / 90 ±3° F |
| Mechanical Specification         |  |
| <b>Dimensions</b>                | (95 W X 75 H X 24D) mm                             |
| <b>Color</b>                     | Black  |
| <b>Weight</b>                    | 0.35 Kg  |

