





THE COMPANY

The Group`s lifeline had its origin way back in 1986. An ISO9001:2008 certified company and one among the Ravel Group of Companies, Ravel Electronics Private Limited., since its inception in 1996 has quickly moved to the forefront as a leading manufacture and supplier of Microprocessor based Fire Alarm Control Panels.

Ravel also provides customized products and services, pursuing Quality Management systems in compliance with international Standards. The Group`s lifeline had its origin way back in 1986. An ISO9001:2008 certified company and one among the Ravel Group of Companies,

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OUR VISION

To position Ravel as one of the reputed brand in domestic and international market with full range of product in fire protection industry.



Analogue Addressable Panel

Avani



- UL listed 9th edition as per NFPA - 72 standards.
- Operating Voltage 120 - 220V AC $\pm 10\%$.
- Switch Mode Power Supply.
- TCP/IP connectivity for centralized monitoring and control.
- Compatible with Integrated Voice Evacuation system- Ekonics / e` Scape.
- On board RS 485 output for Peer to Peer Network & GSM connectivity.
- BMS integration thru MODBUS connectivity.
- Graphics software compatible.
- 32 bit processor - Arm Cortex M3.
- 160 Characters LCD display with Touch Keypad.
- Maximum 4 loop cards configurable as Class A or Class B wiring.
- Maximum 254 devices per loop.
- Up to 192 Grouping Facility.
- 2000 Event Storage with Real Time Clock.
- Onboard USB 2.0 Interface for PC Connectivity.
- 32 Nodes on TCP / IP Network.
- Onboard Two no's of Programmable Inputs.
- Onboard three Programmable Form C relay for Fire, Fault and Supervisory.
- 100 % Configuration on Front Panel.
- Avani is available in White, Black & Red color.

Repeater Panel

Avani RP(PASSIVE)



- Operating Voltage 24V DC.
- 160 character LCD display with touch keypad.
- 2000 events log with RTC.
- USB 2.0 Interface for PC connectivity.
- RS 485 inbuilt connectivity.

Addressable Detectors

RE - 317 Series



- Polarity free wiring
- Dual blinking LEDs at 360° visibility.
- Inbuilt drift compensation facility.
- Sensitivity setting based on Day/Night mode.
- Three level sensitivity settings high/medium/low.
- Smoke Sensitivity : (2.12 \pm 0.61) % / ft
High : 1.1% ft | Middle : 1.4% ft
Low : 2.3% ft | Air Velocity : 0 - 4000 fpm.
- Fixed Temperature : 59°C (138°F)
- Rate of Raise of Temp : 11.1°C / min (20°F/min)
- **Availability** Multi / Smoke / Heat detectors with base.

Addressable Modules

RE - 717 Series



- Module status by RED LED indications.
- Analogue communications with Panel.
- Module Addressing by 8 way DIP switches.
- All Modules are loop powered.
- **Availability** Control / Monitor / Relay Module.

Addressable Manual Pull Station

RE - 716P Series



- UL Listed 9th edition.
- Resettable type.
- Single gang mounting.
- Painted Die cast housing.
- **Availability** Single /Dual action.

Sounder

RE - 716 SO



- UL listed 9th edition.
- Operating voltage 16-33VDC.
- Current rating: 25mA.
- 2 Audible Tones Settings : Continuous and Temporal 3.
- Sounder output :>= 85 dB at 24volt.
- Flush/Ceiling mountable.

Sounder Cum Strobe / Strobe

RE - 716 SS / RE - 716 ST



- UL listed (UL 1971,ULC-S525,UL 464,ULC-S526)
- 4 candela settings:15/30/75/110cd output
- 2 audible tone settings: Continuous/Temporal 3
- High power cool white LED
- Max Current Draw(mA) : 67-93mA
- Flash Rate : 1 flash per second
- Operating Voltage : 24VDC(16-33VDC) / FWR

Addressable Special Modules

RE - 717 Series



- Module Status by RED LED.
- Analogue communication with the panel.
- Module Addressing by 8 way DIP Switches.
- Blinking red LED for Normal condition.
- Steady red LED for Active condition.
- Low Standby Current.
- **Availability** Zone/ Isolator / Input Output Modules.

Addressable Manual Call Point

RE - 717M



- Type A Indoor use MCP.
- Module Status by RED LED.
- Resettable by an element kit.
- Suitable for flush or surface mounting.
- Module Addressing by 8 way DIP Switches.
- Low standby current.

Isolator Base

RE - 314BI



- Bidirectional protection device.
- Yellow color LED indication on active condition.
- Auto resettable while short rectified.
- Non addressable.
- Low standby current.
- Aluminum plated screw terminals.

Response Indicator

RE - RI



- Operates on 12VDC.
- Dual LED's Indication.
- Alarm status is indicated by Red color LED.
- Flush / Ceiling / Wall Mount(optional Back Box)

Addressable Ethernet Module

RE - 517 ME



- 10/100 auto sensing Ethernet mini card for embedded device networking
- Ready- to- Use TCP / IP firmware for fast integration
- TCP server & UDP driver operation modes
- Easy configuration with web browser, serial console, Telnet console or windows utility
- Low Power Consumption

Graphical Software

Avani SOFT



- User friendly windows based software.
- Facility to monitor & control status of the FACP from the single windows.
- Visual and sound alerts for the fire and fault conditions.
- Instant pop up's for any event.
- For alarm management as well as system maintenance.
- All information available on a single screen allowing quick assessment & action.
- Facility to "zoom in & zoom out" for better clarity while Identifying the alarm location.
- The event log details with complete history of the fire alarm system.
- Three level multi user access.

GSM Module

RE - 517 MG



- 24V DC operation.
- Quad band GSM / GPRS:850/900/1800/1900 MHZ.
- Built in SIM (subscriber identity module) card holder.
- Notification of exact fire location as in FACP.
- Maximum 10 numbers can be configured via RE - 517MG.

Modbus Converter

RE - AMB



- Gives full status of all devices, outputs and inputs of FACP.
- Two types of interrogation with Master & Slave devices.
- Configurable for 4 different baud rate.

Power Supply Panel

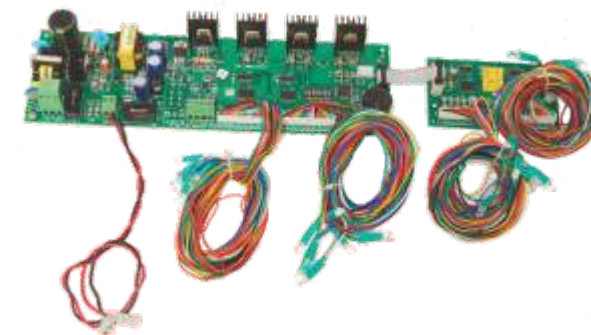
RE - 2APS & RE - 5APS



- Operates on 220V, A.C supply.
- Battery backup with built in charging.
- Low battery visual warning with audible tone.
- 24 VDC Output.

Minic Card

RE - 517MMC



- Operates on 120-220 V AC.
- Provision for battery backup 24 V Dc with Built in Charger.
- RS 485 Communication.
- Compatible with AVANI.
- 16 Zone Outputs for mimic LED'S (Expandable upto 64 Zones).
- DIP Switch addressing.
- Operates with respect to Zone grouping of FACP.

Gas Detectors

RE - 386 Series

- 24V DC operation.
- Internal Buzzer.
- 4 wire system operation.
- Detector auto reset once gas level fall below alarm threshold levels.
- N/O alarm relay output.
- Connects to Zone Module for addressable control and indicating equipment.



Availability

Natural Gas (Methane) Carbon Monoxide(CO) Propane Gas (LPG)

Beam Detector

RE - 428 Series



- Inbuilt Laser Light For Easy Alignment.
- Infrared transmitter & receiver located in single housing.
- Sensitivity threshold 18%, 30% and 50%.

Availability 50m and 100m Range

Duct Detector

RE - 428 DU -S



- Easy To Install.
- One - Pipe Air Sampling System.
- Patented Venturi Pipe And Duct housing.
- Test Hole On Cover.
- Sampling tube Available 2/5/9 ft.

Integrated Voice Evacuation System

Ekonics



- 4 Audio inputs can configure to any combination of 8 or multiple of 8 outputs.
- 19" , 3U Rack Mountable.
- All - Call or Zone wise paging.
- Built - in - 12 Programmable DVA / Alarm Messages.
- 40 x 4 LCD display.
- USB 2.0 Interface for PC connectivity.
- Interface with AVANI via RS - 485.
- 3 Levels of Password Protection.
- RS 485 communication facility.
- Event log with RTC.
- User selectable volume level for audio inputs.
- Zone wise input priority level.
- All Field circuits are supervised.
- Inbuilt 250 W Amplifier
- Zone wise selection through keypad.
- Programmable one form C relay.
- Zone Selection, Fault status in unambiguous colored LED indication.
- Maximum 64 Zones can be configured with 8 Zone grouping for a single Zone.

Expander

EK - 701 to EK - 707



- 2 audio input from Ekonics
- 8 zone audio outputs
- common fault, communication fault status power indication in LED indication
- 19" , 2U Rack mountable
- zone wise selection with LED indication
- All field circuits are supervised

Digital Amplifier

EK - 722



- Better Sound Quality in Digital format
- 19" , 2 u rack mountable
- low power consumption
- power on, audio level indication
- class D amplifier
- Low Heat dissipation
- compact size
- designed for quick and simple plug in type connection
- integrated self protection circuit

P.A Main Console

e`Scape



- 19" , Rack Mountable.
- System ON, Power Fault, Common Fault indication.
- Membrane Keypad for user friendly operation.
- Inbuilt 250 watts amplifier.
- Additional amplifier can expand upto 250W.
- One inbuilt microphone for announcement.
- Zone wise (Speaker Line) Selection facility with LED indication.
- Voice / Alarm / All call Selection Facility.
- MIC mode selection facility.
- Programmable Mode (Alarm, Mic, Music DVA). Selection Facility.
- 100 V audio output for Speaker.
- Alarm activated on automatically announcing mode.
- Compatible with AVANI Via RS 485 Communication.
- Voice recording option available only with 250w amplifier combination.
- DVD input Facility.
- Zone expansion in Multiples of16.
- Maximum 64 Zones can be configured with 8 Zone grouping for a single Zone.

P.A Expander

RE - EX Series



- 24 VDC input voltage.
- 19" 2U rack mountable.
- power ON, communication, fault indications.
- RS -485 Communication, fault indications.
- Membrane Keypad for user friendly operation.
- Zone wise / zone group (Speaker Line) Selection facility with LED indication.
- 100V audio output for speaker.
- Plug type connector for easy wiring.
- Alarm activated on automatically announcing mode.
- Zone expansion in multiple of 16.

Accessories - Remote Paging System

EK - 714



- Gooseneck Microphone.
- All call, announcement, acknowledge status LED indications.
- System on, Communication Fault, Busy & Fault Status LED indications.
- Maximum 64 Zone wise selection keys.
- Interface with public address system via RS - 485.

P.A Ceiling Speakers

RE - LS6C



- Flush mount ø15cm dynamic cone speaker.
- Three field selectable power taps.
- ABS plastic grill with metal punched net.
- Easy to install with spring catch mount.
- Connectors with screw for hooking up the wires tightly.
- Protective dust cover at rear.
- The white color of the grill has been selected to be obtrusive in virtually all interiors.

P.A Wall Speakers

RE - LS6W / LS20W



- Wall Mounted with 12.5 cm cone speaker for announcement and paging.
- Attractive, Stylish ABS white plastic box.
- The specially designed slim speaker is obtrusive in all interiors.
- Equipped with the transformer to provide 100V line.
- Ideal for office work stations, classrooms, shops, malls etc.
- Optional volume control.

