

# RE-120GR

## AGENT RELEASE PANEL

### General

RE-120GR is a microprocessor based Agent Release Panel. These panel are a feature packed control unit performing dual function of detection and controlled release of gaseous agent. These panels have 2 detection circuits and 1 agent release circuit with various programmable options. The panel have all the safety features to prevent accidental release, easy to install, commission with user friendly programmable option, this panel is ideal choice to protect the premises.



### Special Features

- Ravel Indian Manufacturer, International standard.
- Modular Construction, Serviceable.
- Special logic circuitry to prevent accident release.
- Auto Resettable Fuse.
- Surge Protected.
- Battery polarity & deep discharge protection.
- Variable solenoid ON / OFF time.
- 2 No's of programmable Initiating Device Circuit and 1 No. of Releasing Agent circuit

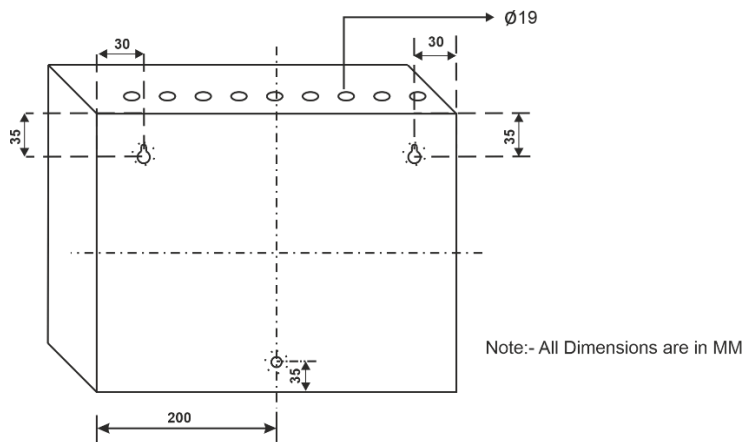
### Features

- Operates on 220 VAC supply
- Battery backup with built in charging.
- 16 X 2 LCD Dot Matrix Display.
- Evacuate and Key pad Enable, Disable Facility.
- Low battery visual warning with audible tone.
- Relay output for actuators.
- Provision for Remote fire with Audio / Visual Indications.
- Compatible to all types of conventional detectors.
- Zone Disable (Isolation) facility with loop voltage cut off.
- Resettable 24 VDC output for 4 wire detectors.
- Three 24V Sounder Output (Fire, after Cross zone, after gas release).
- Two mode operation facility (Auto / Manual).
- Programmable Solenoid Output with ON and OFF Timer.
- Programmable Main / Standby Cylinder output Facility.
- Gas Inhibit and Instant release facility.
- Manual Gas Release with or without timer.
- Actuator pressure low sensing facility.
- 50 Events Log with RTC for Fire & Gas Release.
- RS 485 Output for Repeater.

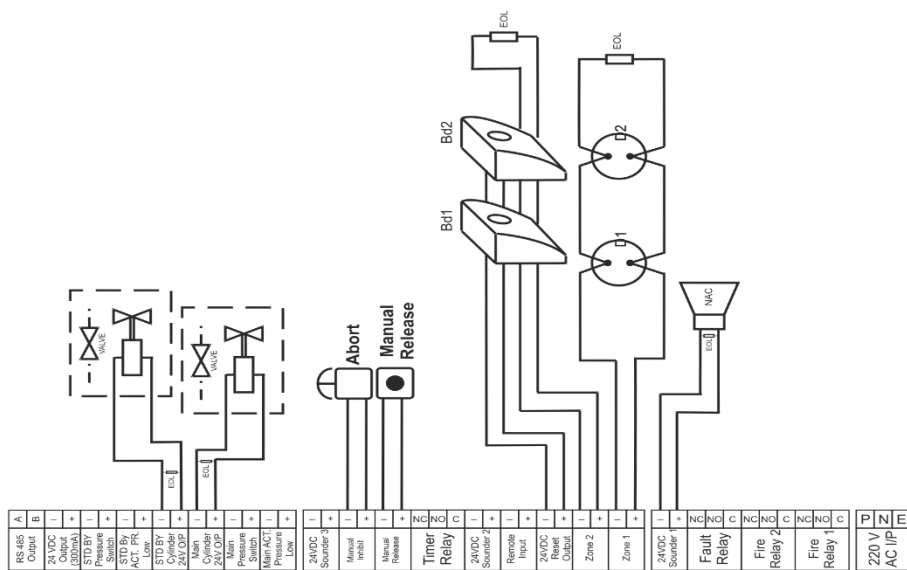
## Specification

Electrical Specification		
<i>Primary Power</i>	240 VAC, $\pm 10\%$ , 50 Hz, 100W. Wire size: 1.5 Sq. mm with 600V insulation	
<i>Standby Power</i>	24V D.C (2 No's of 12V, 7 Ah (max)) Sealed Lead acid battery	
<i>Operating Condition</i>	Operating Temperature 0 - 49°C / 32-120° F. Storage Temperature 0 - 60°C Relative Humidity 93 $\pm$ 2% RH (non-condensing) at 32 $\pm$ 2° C / 96 $\pm$ 3° F.	
<i>Charging Circuit</i>	Charging Voltage: 27.9 VDC. Charging Capacity: 7 Amp Hour Battery Max. System Quiescent Current: 100mA	
<i>Initiating Device Circuit</i>	Normal operating Voltage	14 - 21VDC
	Alarm Current	15 – 30mA
	Short Circuit Current	40mA Maximum
	Loop resistance	50 ohms Maximum
	End-Of-Line Resistor	4.7K, 1/4watt
	Standby Current	6.8mA (2.4mA for Detectors)
<i>Notification Appliance Circuits</i>	<b>Supervised</b>	<b>1 No</b>
	Operating Nominal Voltage	24 VDC Nominal
	Operating Current	0.75A (max)
	End-Of-Line Resistor	4.7K, 1/4watt
	<b>Non - Supervised</b>	<b>2 No</b>
	Operating Nominal Voltage	24 VDC Nominal
	Operating Current	0.3A (Max)
	End-Of-Line Resistor	4.7K, 1/4watt
<i>Releasing Agent Circuit</i>	Operating Nominal Voltage	24 VDC
	Solenoid output	0.75A
	End-Of-Line Resistor	4.7K, 1/4watt (for Solenoid Output)
<i>DC Output</i>	24VDC, 300mA (max)	
<i>Programmable Relays</i>	Type	Form C
	No of Relays	3 Fire, Fault and Cross Zoning.
	Relay contact rating	2A @ 30 VDC, 0.5A @ 125 VAC
Mechanical Specification		
<i>Dimensions</i>	(400W X 300H X 100D)mm	
<i>Color</i>	White / Red	
<i>Construction</i>	18 Gauge (1.2 mm) CRCA sheet with powder-coated Finish	
<i>IP Rating</i>	IP50	
<i>Cable Entry</i>	9 x $\phi$ 19mm Knockout in top of the cabinet	
<i>Weight</i>	7 Kg	

## Mounting Detail



## Wiring Configuration



Note:

- D1,D2 - Two wire detectors
- Bd1, Bd2 - Four wire detectors.
- EOL - End Of Line Resistor
- NAC - Notification Alarm Circuit (Sounder)
- IDC - Initiating Device Circuit (Zone)

Initiating Device Circuit  
IDC's are 1 & 2, Class B StyleB/C  
End of Line - 4K7 1/4W

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

## Compatible Devices

Models	Description
<i>RE-316S-2L</i>	Conventional Photoelectric Smoke detector with base.
<i>RE-316H-2L</i>	Conventional Heat detector with base.
<i>RE-316SH-2L</i>	Conventional Multi sensor detector with base
<i>RE-314</i>	Common base for above
<i>RE-716MR</i>	MCP Red
<i>RE-24CS</i>	Conventional Sounder / horn
<i>RE-25SS</i>	Conventional Sounder / Horn cum strobe
<i>RE-716SO</i>	UL Listed Conventional Sounder
<i>RE-716SS</i>	UL Listed Conventional Sounder cum Strobe
<i>RE-716P1T</i>	UL listed Single Action Manual Pull station
<i>RE-716P1TLP(R)</i>	UL Listed Dual Action Manual Pull Station
<i>RE-316S-2L</i>	Conventional Photoelectric Smoke detector with base.
<i>RE-316H-2L</i>	Conventional Heat detector with base.
<i>RE-4K7</i>	End of Line Resistor
<i>RE-364BS</i>	Conventional Sounder Base

## Ordering Information

Model	Description
RE-120GR	Conventional Agent Release Panel

**Note:**

W – White color  
R – Red Color

### India

RAVEL ELECTRONICS PVT LTD.,  
150A, Electronics Industrial Estate,  
Perungudi, Chennai – 96, India.  
E-mail: [sales@ravelfire.com](mailto:sales@ravelfire.com); Web: [www.ravelfire.com](http://www.ravelfire.com)

### UAE

RAVEL DMCC,  
Unit No: G30, DMCC Business Center,  
Level No 13, AG Tower, Dubai, UAE.  
E-mail: [sales@raveldmcc.com](mailto:sales@raveldmcc.com)

### USA

RAVEL AMERICAS INC.,  
2855 NW 112<sup>th</sup> Ave ST#2 Miami,  
Doral, Florida 33172, USA.  
E-mail: [sales.us@ravelfire.com](mailto:sales.us@ravelfire.com)