

# RE - 15AR Agent Release Panel



## Product Overview

RE-15AR is a feature-packed control unit performing dual function of detection and controlled release of gaseous agent. Unlike usual conventional gas release panels, it has facility providing Class A type of wiring.



## Features:

- Complies with UL -864 and NFPA-72.
- Rugged CRCA sheet with powder coated finish.
- Operates on 120-220v 60 / 50 Hz, A.C. Mains power supply.
- Standby (battery) backup 24v D.C. power supply with built-in charger
- 16x2 Dot Matrix LCD Display.
- 4 Class - B / 2 Class - A Initiating device circuits (I.D.C).
  - All zones accept smoke detectors and any normally open Contact device.
  - Any Zone can be configured as Alarm or supervisory Zone.
- 2 Class - B Releasing Agent Circuits (R.A.C).
- 2 Notification Appliances Circuits (N.A.C).
- Error free Fire / Fault status in unambiguous colored LED indication.
- System ON indication.
- Main, Stand-by status audible and visual indication.
- Battery Low visual warning with audible tone.
- 4 Form c programmable relay for fire/fault/supervisory/pre-release/release.
- 100 Events Log with RTC.
- 4 Programmable Input circuits for manual release /Abort/Pressure Switch/Actuator low pressure.
- Zone Isolation Facility.
- Walk test Facility.
- All Wiring Circuits are supervised.
- Earth Fault annunciation facility
- All Field Circuits are power limited except 120-220v AC and Battery.
- RS 485 Communication Facility (Optional for Zone wise contact / MODBUS).
- Two Modes of Operation (Auto /Manual).

## Programmable Options

- 24V DC output (Steady/Resettable/Pre-Release).
- RAC's with Count down Timer.
- NAC's.
- Trouble reminder facility.
- A.C. loss Delay.

# Specification

## Primary Power (RE-SMPS-4A-R1)

120 - 220VAC ± 10%, 50 Hz, 2.5Amps.

## Standby Power

24v D.C (2 Nos of 12v, 12Ah Sealed Lead acid battery).

## Operating Condition

Operating Temperature: 0 - 49° C/32-120° F.  
Relative Humidity: 93 ± 2% RH (non-condensing)  
at 25 ±2° C/77 ±3° F.

## Charging Circuit

Charging Voltage: 28.4V, ±0.2V With current  
800mA (Max).

## ID.C. Output Power

Supervised 24VDC regulated, 1A Max. (for 4 wire  
smoke detector)

## Common Four Form C Relays

Relay Contact Rating: 2Amps @ 30 VDC, 2Amps  
@ 30VAC.

Power Factor: 0.6

Dimension of the panel : 450 x 340 x 120 mm (  
length x height x width )

## Initiating Device Circuits

Class A/B Style B/C operation (Programmable).  
Normal Operating Voltage: 14 - 21 VDC.  
Alarm Current: 15 - 30mA.  
Short Circuit Current: 45mA Maximum.  
Loop resistance: 100 ohms Maximum.  
End-Of-Line Resistor: 3K9, 1/2watt  
Standby Current: 7mA (2mA for Detectors)

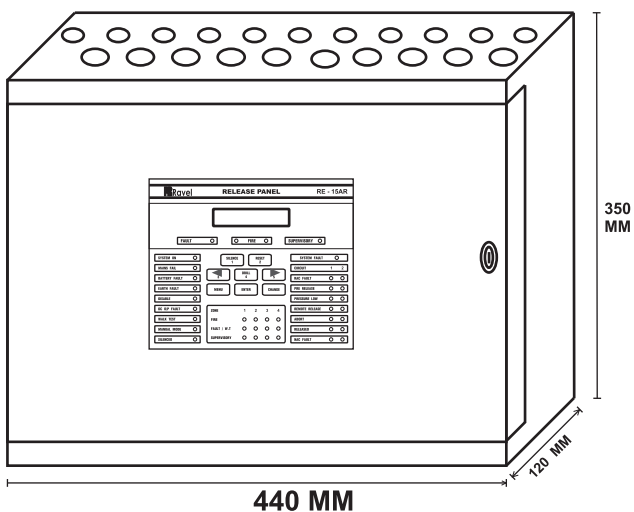
## Notification Appliance Circuits

Class B Style - Y wiring  
Operating Nominal Voltage: 24VDC Special Application  
Current for NACs: 0.5A per circuit  
Line Drop: 1.8V  
End-Of-Line Resistor: 3K9, 1/2watt

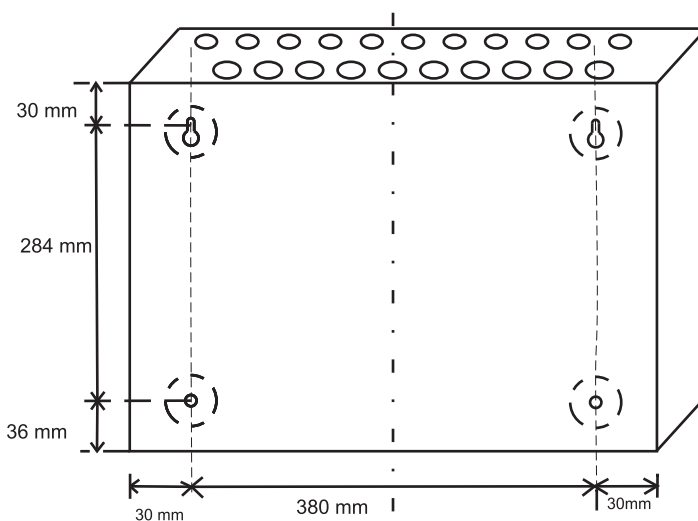
## Releasing Agent Circuits

Class B Style - Y wiring  
Operating Nominal Voltage: 24VDC Special Application  
Current for RACs: 2A  
Line Drop: 1.8V  
End-Of-Line Resistor: 3K9, 1/2watt.

## G.A.Diagram:



## Mounting Detail:



## Terminal Details:

I	+	I	+	I	+	I	+	I	+	I	+	I	+	I	+	I	+	OUT	IN	I	+	I	+	I	+	NC	NO	CO	NC	NO	CO	NC	NO	CO	NC	NO	CO	P	N	E
Zone 4		Zone 3		Zone 2		Zone 1		Input 4		Input 3		RAC - 2 (2A)		Input 2		Input 1		RAC - 1 (2A)		RS Sense	RS 24V Output (1A)	NAC - 2 (0.5A)	NAC - 1 (0.5A)	Programm. Relay 3	Programm. Relay 2	Programm. Relay 1	Fire Relay	120 - 220V AC Input												

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