

# RE - 2504 / 08 Fire Alarm Panel



## Product Overview

The RE-2504/8 is a 4/8 zone UL Listed Fire Alarm control Panel. These control panels are designed to be used in small & medium commercial industries, buildings, hotels, schools, etc. and are compatible with all type of conventional detectors, manual call points and normally open dry contact devices. Unlike usual conventional range of panels this series comes with a bigger LCD display and a RTC clock for event log.



## Features

- 4/8 Class B initiating device circuit (IDC).
  - All zones accept smoke detectors and any normally open contact device.
  - Any Zone can be configured as Alarm or supervisory Zone.
- 2 Class B Notification Appliance Circuits (NAC).
- Fully complies with UL -864 and NFPA-72.
- Rugged CRCA sheet with powder coated finish.
- Operates on 220v 50Hz, AC Mains power supply.
- Standby (battery) backup 24v DC power supply with built in charger.
- Error free Fire / Fault status in unambiguous colored LED indication.
- Main, Standby status audible and visual indication.
- Battery Low visual warning with audible tone.
- Form-C relays for fire, fault and supervisory.
- Zone Isolation facility with loop voltage cut off.
- Ground fault annunciation facility at 0 ohms.
- All field wiring circuits are Power limited except 220v A.C. and Battery.
- All field wiring circuits are supervised.
- AC Low voltage cutoff.
- Programmable NAC's.
- Programmable IDC's.
- Programmable AC loss delay.
- Alarm verification facility.
- Programmable Trouble reminder facility.
- Events history with RTC.



# Specification

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

120 - 220VAC  $\pm$  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  $\pm$  2% RH (non-condensing) at 25  $\pm$ 2° C/77  $\pm$ 3° F.

## Charging Circuit

Charging Voltage 28.4V,  $\pm$ 0.2V With current 800mA (Max).

## ID.C. Output Power

Supervised 24VDC regulated, 300mA Max. (for 4 wire smoke detector)

## Dimension of the panel :

440 x 340 x 120 mm ( length x height x width )

## Initiating Device Circuits

All Zones are Class B Style B/C operation (Programmable).

Normal Operating Voltage: 14 - 21 VDC.

Alarm Current: 15 - 30mA.

Short Circuit Current: 40mA 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: 0.6A per circuit

Line Drop: 1.8V

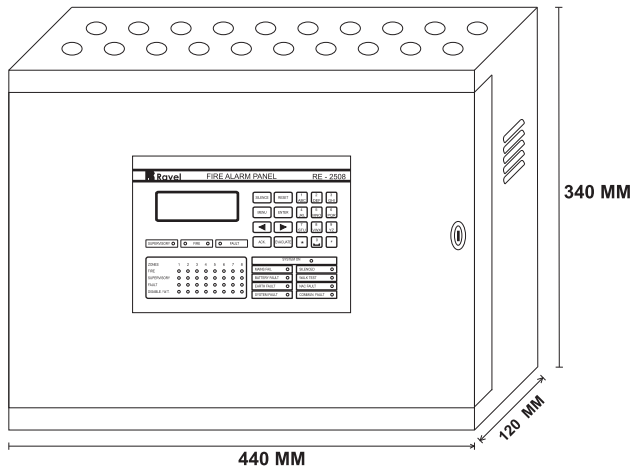
End-Of-Line Resistor: 3K9, 1/2watt

## Common Four Form C Relays

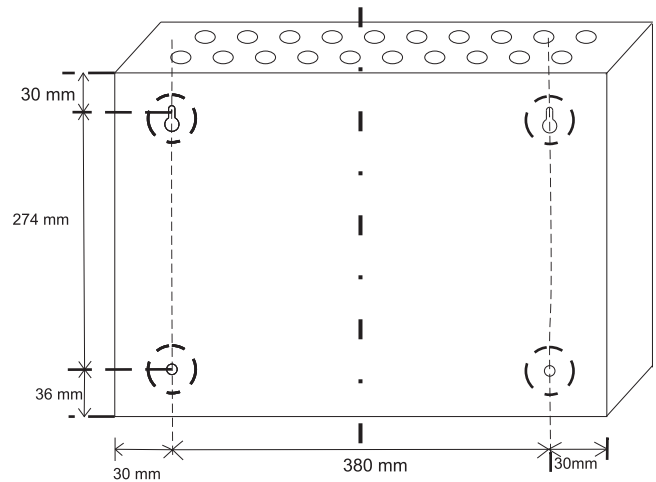
Relay Contact Rating: 2Amps @ 30 VDC, 0.5Amps @ 125VAC.

Power Factor: 0.6

## G. A. Diagram:



## Mounting Detail:



## Terminal Details:

A	B	-	+	OUT	IN	-	+	-	+	-	+	-	+	OUT	IN	-	+	-	+	NC	NO	NO	C0	NC	NO	NO	C0	NC	NO	NO	C0	P	N	E
RS485	Output	24V	Output	O/P	Sense	Zone 8	Zone 7	Zone 6	Zone 5	Zone 4	Zone 3	Zone 2	Zone 1	RS Sense	RS 24V	Output	NAC - 2	NAC - 1	Fire	Relay	Fault	Relay	Supervisory	Relay	220VAC	Input								

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