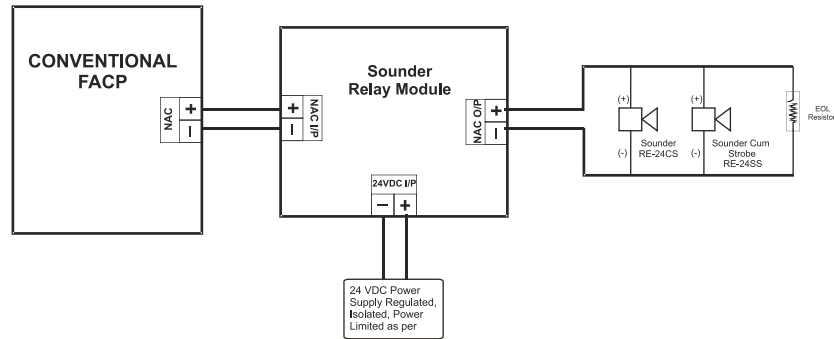


2) RE-2APS Connected with 24VDC I/P Conventional Sounder Relay Module.



Battery Calculation :

- Normal Condition : $X = S$ (Amps) x ____ Hrs. (Backup time required)
- Alarm Condition : $Y = F$ (Amps) x ____ Hrs. (Backup time required)
- Battery Ah required : $AH = (X + Y) \times 1.2$ (Derating Factor).

System current (S) = Quiescent Current; Fire current (F) = Max. NAC Current

Example

$S=0.035A$, $F=1.74A$, Normal backup time: 24 hrs, alarm time: 60 min

Normal condition $X=(0.035 \times 24 \text{ hrs}) = 0.84$

Alarm condition $Y=1.74 \times 1 \text{ Hr (60 min)} = 1.74$

Total AH required = **AH** = $(0.84+1.74) \times 1.2 = 3.096 \text{ AH}$

Power Supply Panel

Installation, Commissioning & Operating Manual

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Product Overview:

The RE-2APS is compact and cost effective 2 Amps power supply with build-in charger. It may be connect to the any 24 Volt Fire alarm control panel or may be stand-alone for the primary applications like Notification appliance circuit expansion or auxiliary power to support 24 Volt system accessories. It provides regulated and filtered 24 VDC power to NAC's and it also contains a battery charger capable of charging up to 14 Ah batteries. The Panel has a builtin battery provision to accommodate 2 No's of 12V, 7Ah batteries.

Features :

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

Specification:

- Mains** 220 VAC, 50 Hz +10%, -15%.
Wire size: 1.5 Sq. mm with 600V insulation
- Battery (Lead Acid only)**
Charging Voltage: 28 VDC \pm 0.5V
Charging Current: 400mA Max
System Quiescent Current: 35mA

Output Voltage : 24VDC @ 2A Max.

Dimension : 350 Width x 250 Height x 100 Depth (mm)

Weight : 4 Kg Max.

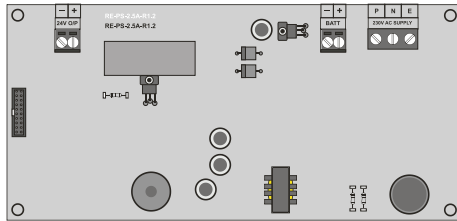


Fig-1:- Power Supply Board

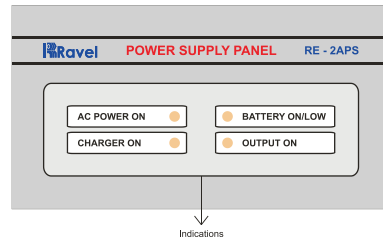


Fig-2:- Power Supply Indications

Indications

- | | |
|-------------|--------------------|
| AC Power On | - Green |
| Charger On | - Green |
| Battery On | - Green |
| Battery Low | - Green with Blink |
| Output On | - Green |

Local Buzzer : A piezo buzzer provides separate and distinct sounds for alarm, trouble and supervisory conditions: Fault – pulse 0.5sec ON and 5sec OFF

Installation

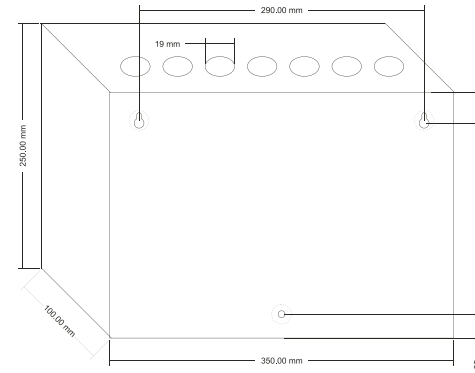


Fig-3:- Mounting of Panel

Remove all the Boards before placing the panel in its mounting position. Place the panel in its mounting position and fix the panel to the wall using the slots of the screws. Ensure the enclosure and the inner parts of the panel are given sufficient protection during installation. Fix the all boards in its position. All external cables are to be entered via the 7 numbers of ϕ 19mm preformed knockouts located at top of the panel. When installation of all the cables has been completed, clean the interior of the enclosure ensuring all masonry debris and drilling swords are removed.

Application :

We Can Connect the RE-2APS Powers Supply having 24VDC Terminals as shown below.

- 1) RE-2APS Connected with 24VDC I/P Addressable Module.

