

# RE - 900 Series Fire Alarm Control Panel



## Product Overview :

RE-900 Series, Microprocessor based conventional Fire Alarm Control Panel, are designed to be used for medium and large size commercial complexes and industrial establishments. This panel can accommodate a range of 12 zones upto 128 zones. User friendly systems which involves a touch keypad to program the panel. This can be used as a standalone or networkable panel.



## Features :

- \* Complies with UL -864 and NEPA -72.
- \* 20 x 4 dot matrix LCD display.
- \* Operates on 120 - 220VAC 60 /50 Hz, AC mains power supply.
- \* Standby (battery) backup 24 VDC power supply with built in charger.
- \* Touch keypad for user friendly operation.
- \* Epoxy powder coated finish.
- \* Class- B, Style B / C initiating device circuit (IDC).
- \* All zones accept smoke detectors and normal open contact devices.
- \* Class B notification appliance circuits (NAC).
- \* NAC shall be programmed as AUTO SILENCE / Silence Inhibit.
- \* Error free Fire / Fault status in unambiguous colored LED indication.
- \* 1000 Event storage with RTC.
- \* Main, Standby status with audible and visual indication.
- \* Two Form C relays for fire and fault.
- \* Resettable / Steady 24VDC. Output.
- \* RS 485 Communication facility.
- \* TCP/IP facility (Optional)
- \* MODBUS for Building Management System integration (Optional).
- \* PC software (optional)
- \* External zone wise sounder/contact via RS 485 (Optional).
- \* All field wiring circuits are supervised.
- \* Zone Isolation facility with loop voltage cut off.
- \* Zones available : 12, 16, 20, 24, 32, 48, 64,96 and 128.
- \* Facility to connect Public Address System (PA) through RS-485 Communication.
- \* Peer to Peer network facility.
- \* Maximum 16 panels can be connected to a single network.



## Electrical Specification:

### Primary Power:-

120 - 220VAC  $\pm$  10%, 60 / 50 Hz.450W

### Stand by Power:-

24 VDC (2 X 12V Battery (for AH refer battery calculation)

Quiescent current : 120 mA

### Operating Condition :-

Operating Temperature 0 - 49° C/32-120° F.

Storage Temperature - 0° C to 60° C

Relative Humidity - 93  $\pm$  2% RH (non- condensing) at 32  $\pm$  2° C/90  $\pm$  3° F.

### Charging Circuit:-

Charging Voltage - 28.0V,  $\pm$ 2%

Charging Current - 1.2A(Max)

### D.C. Output:-

(Resettable / Steady) 24VDC Output ,1A Max.

### 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 : 45mA Maximum.

Loop resistance : 100 ohms Maximum.

End-Of-Line Resistor : 4K7, 1/2watt

Standby Current : 7mA (2.5mA for Detectors)

### Notification Appliance Circuits:-

Class B Style - Y wiring

Operating Nominal Voltage : 24VDC

Current from 12 Zone Upto 64Zone

NACs : 2 Amps (1 A per circuit)

Current above 64Zone

NACs : 4 Amps (1 A per circuit)

Line Drop : 1.8V

End-Of-Line Resistor : 4K7, 1/2watt

### Common Relays:-

Type : Form C

No of Relays : 2

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

Power Factor : 1.0

## Dimensions

Zones	Width	Height	Depth
12 Zone	425	350	120
16 Zone	425	350	120
20 Zone	500	600	160
24 Zone	500	600	160
32 Zone	500	600	160
48 Zone	600	700	160
64 Zone	600	1000	160
96 Zone	600	1400	160
128 Zone	600	1400	160

All dimensions are in mm.

## Ordering Information

Models	Description
RE-9012	12 Zone Fire Alarm Control Panel
RE-9016	16 Zone Fire Alarm Control Panel
RE-9020	20 Zone Fire Alarm Control Panel
RE-9024	24 Zone Fire Alarm Control Panel
RE-9032	32 Zone Fire Alarm Control Panel
RE-9048	48 Zone Fire Alarm Control Panel
RE-9064	64 Zone Fire Alarm Control Panel
RE-9096	96 Zone Fire Alarm Control Panel
RE-9128	128 Zone Fire Alarm Control Panel

## Compatible Devices:

MODEL	DESCRIPTION
RE-900RP Series	Fire Alarm Repeater Panel
RE-316S-2L	Photoelectric Smoke detector with base.
RE-316H-2L	Heat detector with base.
RE-316SH-2L	Photoelectric & Heat detector with base
RE-716 MR	Conventional Manual Call Point.
RE- 24 CS	Conventional Sounder.

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