Description
The DF550-4CP is a 4/8 zone UL Listed Conventional 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 conventional detectors, manual call points and normally open dry contact devices.

Features
• Rugged CRCA sheet with powder coated finish.
• Operates on 110 - 220v 50/60 Hz, AC Mains power supply.
• 16x2 Dot Matrix LCD Display.
• 4/8 Class B Style ‘B’ or Style ‘C’ 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).
• NAC shall be programmed as silenceable or Non Silenceable.
• Supervisory Zone shall be Latching or Resettable.
• Standby (battery) backup 24v DC power supply with built in charger
• Error free Fire / Fault status in unambiguous colored LED indication.
• System ON indication.
• Main, Standby status audible and visual indication.
• Battery Low visual warning with audible tone.
• FormC relays for fire, fault and supervisory.
• Resettable / Steady 24V D.C. Output.
• RS 485 Communication facility (Optional).
• Lamp Test facility.
• All field wiring circuits are Power limited except 110 - 220v AC and Battery.
• All field wiring circuits are supervised.
• Walk Test facility.
• Zone isolation facility with loop voltage cut off.
• Earth fault annunciation facility at 0 ohms.
• AC Low voltage cutoff.
• Programmable AC loss delay.
• Programmable Alarm verification.
• Programmable Trouble reminder

Special Features
• Switched Mode Power Supply (95-245)V
• Modular Construction
• Auto Resettable Fuse
• Surge Protection
• Programmable AC loss delay/Trouble Remainder/Alarm Verification
• Battery polarity reversible protection
• Surface Mount Technology
• Over All current consumption is low.
**Electrical Specification:**

**Primary Power (RE-SMPS-4A-R1)**
- 120 - 220VAC ± 10%, 60 - 50 Hz

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

**Charging Circuit**
- Charging Voltage 28.0V, ± 0.5V
- Charging Current 800mA (Max).

**D.C. Output**
- Supervised 24VDC, 300mA Max.

**Common Relays**
- Type : Form C
- No of Relays : 3
- Relay Contact Rating : 2 Amps @ 30 VDC, 2Amps @ 30 VDC.
- Power Factor : 0.6

**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 : 3K9, 1/2watt
- Standby Current : 7mA (2mA for Detectors)

**Notification Appliance Circuits**
- Class B, Style - Y wiring
- Operating Voltage : 24VDC Nominal Special Application
- Current for NACs : 12Amps (0.6A per circuit)
- Line Drop : 1.8V
- End-Of-Line Resistor : 3K9, 1/2watt
DF550-4CP Conventional Fire Alarm Control Panel (4 Zone)

Mechanical Specification:
Construction : 16 Gauge (1.6 mm) CRCA sheet with powder-coated Finish
IP Rating : IP50
Cable Entry : 9xØ19mm Knockout in top of the cabinet
             9xØ22.25mm Knockout in top of the cabinet
Weight : 13 Kg

Mounting Diagram

Note:- All Dimensions are in MM
DF550-4CP Conventional
Fire Alarm Control Panel (4 Zone)

Wiring Diagram

1. All the field wiring circuits are supervised.
2. All the field wiring circuits are Power limited except 110-220V.A.C. and battery.

Notes:
- D1, D2: Two wire detectors
- Bc1, Bc2: Four wire detectors
- EOL: End Of Line Resistor
- NAC: Notification Alarm Circuit

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