

Fire Alarm Control Panel



iQ400 & iQ500 series HMI Control Panel

4 and 8 Zone Fire Alarm Touch Panel, HMI

FIRE ALARM TOUCH PANEL, HMI, INCORPORATED WITH CPU, PLANABLE & PROGRAMMABLE IQ 500 SERIES

FIRE ALARM TOUCH PANEL, HMI, INCORPORATED WITH CPU, PLANABLE & PROGRAMMABLE IQ 400 SERIES

Fireguard iQ series microprocessor based UL listed

HMI conventional control panels provide a solution to any Programmable conventional system requirement. Fireguard iQ series panels fully complies with UL-864 and NFPA-72. It comes with 16 x 2 dot matrix LCD display with lamp & walk test facility. Fireguard iQ series panels advanced features included as standard to ensure ease of use and high reliability.

Model iQ400 series-404- 4 Zone

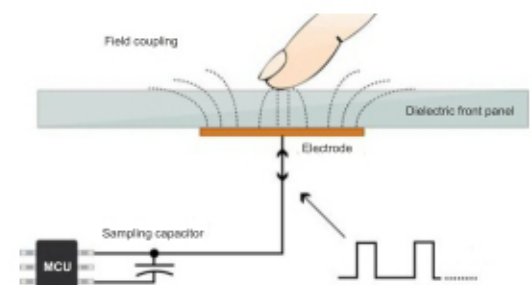
Model iQ400 series-408- 8 Zone

Model iQ500 series-508- 8 Zone

Features:

- HMI Panel (Touch Panel For user friendly) and Programmable System for any Detector.
- 4 Class B initiating device circuit t (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.

Capacitive Touch Technology:



Fire Alarm Control Panel



- Operates on 120- 220v 50 /60 Hz, AC Mains power supply.
- Standby (battery)backup24 v DC power supply with built in charger.
- 16x2 Dot Matrix LCD Display.
- 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.
- Form-C relays for fire ,fault and supervisory.
- Resettable / uninterrupted24 v D.C .Output.
- RS 485 Communication facility (Optional).
- Lamp Test facility.
- Walk Test facility.
- Zone Isolation facility with loop voltage cut off.
- Earth fault annunciation facility at 0 ohm
- All field wiring circuits are Power limited except 110 - 220v AC and Battery.
- All field wiring circuits are supervised.
- AC Low voltage cutoff.
- Programmable NAC's.
- Programmable IDC's.
- Programmable Supervisory Mode.
- Programmable AC loss delay.
- Alarm verification on facility.
- Programmable Trouble reminder facility.



Technical Specification:

Primary Power – CN1(RE -SMPS-4A-R1)

120 - 220VAC \pm 10%, 50 Hz,

Standby Power – CN10

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

Operating Condition

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

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

Charging Circuit

Charging Voltage – 28.2V, \pm 0.5V

Charging Current – 800mA (Max.).

Initiating Device Circuits - CN8

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

Normal Operating Voltage¹⁴ : -21 VDC.

Alarm Current¹⁵ : - 30mA.

Short Circuit Current⁴⁵ : mA Maximum

Loop resistance ¹⁰⁰ : ohms Maximum

End Of-Line Resistor³ : K1/2 ,9watt

Standby Current : 7mA (2mA for Detectors)

Notification Appliance Circuits

Class B Style - Y wiring

Operating Nominal Voltage²⁴ : VDC Special Application

Current for all NACs : 1.2Amps (0.6A per circuit)

Current Limit :CN 5and CN 6via Thermal Fuse

Line Drop^{1.8} : V

End-Of-Line Resistor³ : K ,91/2watt

Note :For compatible devices refer Chapter9 (CD01).

D.C .Power - CN7

Operating Voltage :Supervised24 VDC regulated . 300mA Max .(for 4 wire smoke detector)

Common Three Form C Relays

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

Power Factor :0.6

Dimension of the panel

440 x 340 x120mm (l x h x d)