

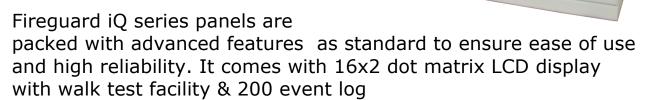
# iQ800 series Extinguishing control panel

U) Listed.

Fireguard iQ series microprocessor based UL listed extinguishing control panels provide a flexible approach to multiple

area extinguishing protection.

Fireguard iQ series panels fully complies with UL-864 and NFPA-72. Approval by Underwriters Lab to the most rigorous of international standards, provides peace of mind for both designers and end-users With gas panels often protecting high cost, high risk areas.



Model iQ800 series-W (White cabinet) Model iQ800 series-R (Red cabinet)

## **Features:**

- Fully complies with UL -864 9th Edition and NFPA-72.
- Rugged CRCA sheet with powder coated finish.
- 4 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 Releasing Agent Circuits (RAC).
- 2 Class B Notification Appliance Circuits (NAC).



- Operates on 120 220v 60 / 50 Hz, AC Mains power supply.
- Standby (battery) backup 24v 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.
- 3 Form C relays one for fire and two programmable relays for Fire / fault / supervisory / Cross Zone / Gas Released.
- Programmable two Input Circuits for Manual release and abort.
- Two modes of operations Auto / Manual.
- Programmable 24v D.C. Outputs.
- Programmable NAC2 as RAC1.
- RS 485 Communication facility (Optional).
- 200 Events Log facility with RTC.
- Walk Test facility.
- Zone Isolation facility.
- All field wiring circuits are Power limited except 120 / 220v AC and Battery.
- All field wiring circuits are supervised.
- AC Low voltage cutoff.
- Programmable RAC's with count down timer.
- Programmable NAC's.
- NAC it is saying releasing agent circuit
- Programmable IDC's.
- Programmable Supervisory Mode.
- Programmable AC loss delay.
- Alarm verification facility.
- Programmable trouble reminder facility.



## **Technical Specification:**

#### Primary Power - CN1 (RE-SMPS-4A-R1)

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

#### **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±2% RH (non-condensing) at 25 ±2° C/77±3° F.

### **Charging Circuit**

Charging Voltage – 28.4V,  $\pm 0.2V$  with Current – 800mA (Max.).

## **Initiating Device Circuits**

All zones are Class B Style B/C operation (Programmable). Normal Operating Voltage :  $120 - 220VAC \pm 10\%$ , 50 Hz,

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 Nominal Voltage: 24VDC Special Application

Current for all NACs: 1.2Amps (0.6A per circuit) Current Li mit: CN5 and CN6 via Thermal Fuse

Line Drop: 1.8V

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

#### Releasing Appliance Circuits - CN 13 & 14

Class - B Style - Y wiring

Operating Nominal Voltage: 24VDC - Special Application

Current for all RACs: 0.6A per circuit

Line Drop: 1.8V

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

#### **D.C. Output Power**

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

#### **Common Three Form C Relays**

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

Power Factor: 0.6

#### Dimension of the panel

440 x 350 x120 mm (l x h x d)