



iQ500 series **1-4 Loop** **intelligent fire alarm control panel**

Fireguard iQ series addressable control panels delivers the power and flexibility to meet the even most demanding requirements from 1-4 loops in a single panel to over 64 loops on a network. Fireguard comprehensive range of detectors, advanced fire detection sensors and loop devices delivers you the most complete and versatile fire alarm system with UL approvals.

Fireguard iQ series addressable control panels are Microprocessor based panels comes with networking capability. Each loop can accommodate 254 Multi protocol devices with Auto scanning facility. Different sensitivity levels can be assigned to individual smoke sensors thereby allowing the system designer to closely match the sensor's response to the environment in which the device is installed.

Multiple panel networks can be programmed seamlessly as one system, allowing for flexible design and total system management. Large LCD display of 40x4 characters allows clear indication of fire or fault location.

Fireguard iQ series are the most consistent and robust networking systems which are ideally suited to even the largest office complexes, shopping centres, University campus, sports stadiums etc.

Features:

- As per UL 864, 9th Edition & NFPA 72.
- 32 bit Processor - Arm Cortex M3.
- 40 x 4 Characters LCD display.
- Touch Key pad for user friendly operation
- Maximum 4 number of loop cards with class A or B wiring.
- Maximum 254 devices (Combination of Devices) per loop.
- Up to 192 Grouping Facility.





- Auto Scanning Facility.
- Device wise Configuration Facility.
- Auto Device type Verification.
- Programmable Detector Sensitivity.
- 2000 Event storage with real time clock
- Day / Night Mode Facility.
- USB 2.0 Interface for PC connectivity.
- Rs 485 Communication Facility for Network / Repeater
- Auto Dialer / GSM Module (Optional)
- Ethernet Module (Optional)
- Printer interface Module (Optional)
- Programmable Auto silence Facility
- Programmable Trouble Remainder Facility
- Programmable AC Loss Delay
- Programmable Silence inhibit.
- Loop wise test Facility
- Operates on 110 to 220 V AC, 60 / 50 Hz.
- Battery Backup 24V DC with built in charger
- Battery low visual warning with audible tone
- Three nos. form C relay for fire, Fault and Supervisory.
- Supervised 24V DC Output.
- Two nos. of Supervised notification Appliance circuits.

Technical Specification :

Primary Power
120 - 220VAC + 10% - 15%, 60 / 50 Hz,
Standby Power
24v D.C (2 Nos of 12v, 14Ah Sealed Lead acid battery).



Operating Condition

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

Relative Humidity 93±2% RH (non-condensing) at 32 ±2° C/96 ±30 F.

Charging Circuit

Charging Voltage 28.4V, ±0.2V Nominal

Charging Current 1.2A (Max.).

Signaling Line Circuits

Class A or B loop Card: 4 Nos Maximum

Number of Device per loop: Multi protocol for Devices

Number of Device per loop: 254 Devices per Loop

Loop resistance: 40 ohms (Max.).

Loop Capacitance: 06 µf (Max.).

Loop Current: 250mA (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 (2mA for Detectors)

Notification Appliance Circuits

Class B Style - Y wiring

Operating Nominal Voltage : 24VDC Nominal

Current for NACs: 1Amps

Line Drop: 2.4V

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

D.C. Output

Supervised 24VDC, 300mA Max.

3 Common Three Form C Relays

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

Power Factor : 0.6