

iQ500 series 1-4 Loop **Intelligent Fire Alarm Touch Panel (HMI)** **IQ500 Series**

Flameguard 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. Flameguard comprehensive range of detectors, advanced fire detection sensors and loop devices delivers you the most complete and versatile fire alarm system with UL approvals.



Flameguard 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.

Flameguard 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 :

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



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| 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 |