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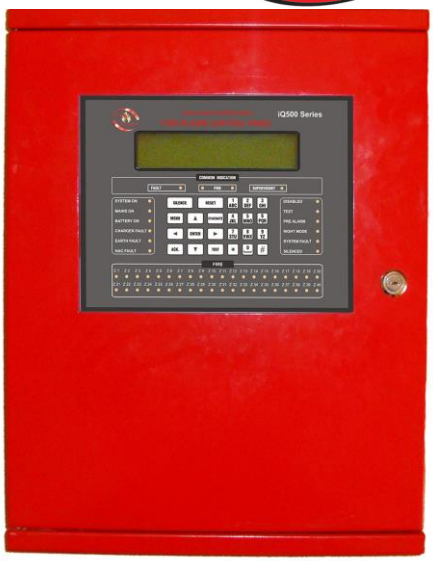
iQ500 series 1-4 Loop intelligent fire alarm control panel



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.

iQ Series 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.
- Networkable
- Auto Resettable Fuse

iQ Series Features:

- Auto Scanning Facility.
- Double address sensing
- Walk test
- Device wise Configuration Facility.
- Auto Device type Verification.
- Touch keypad for user friendly operation.
- 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
- Peer to Peer Networking
- 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.
- If the main CPU fails it will raise an Alarm like conventional panel

Electrical Specification:

Primary Power
120 / 220VAC + 10% -15%, 60 / 50 Hz.

Standby Power
24V D.C (2 No's of 12V, 40 Ah (Max), Built in for 12Ah) 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 / 90 ±3° F.

Charging Circuit
Charging Voltage 28 V, ±0.2V Nominal
Charging Current 1.2A (Max.).

Notification Appliance Circuits

No of circuits	2
Class B, Style - Y wiring	
Operating Nominal Voltage	: 24 VDC Nominal
Current for NACs	:
NAC - 1	: 1A
NAC - 2	: 0.8 A
Line Drop	: 2.4V
End-Of-Line Resistor	: 4K7, ½ watt

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

Programmable Relays

Type	: Form C
No of Relays	3
Relay Contact Rating	: 2A @ 30 VDC, 0.5A @ 125VAC.

Signaling Line Circuits

Loop card	: 4 Nos. Maximum.
No Devices per loop	254
Loop resistance	: 40 Ω (Max.).
Loop capacitance	: 0.6 µf (Max.).
Loop Current	: 300mA (Max.).

Initiating Device Circuits
Class B Style B/C Operation.

No of Conventional Zone	1
Normal Operating Voltage	: 14 - 21 VDC.
Alarm Current	: 15 - 30mA.
Short Circuit Current	: 45mA Maximum.
Loop resistance	: 100Ω Maximum.
End-Of-Line Resistor	: 4K7, 1/2watt
Standby Current	: 7mA (2mA for Detectors)

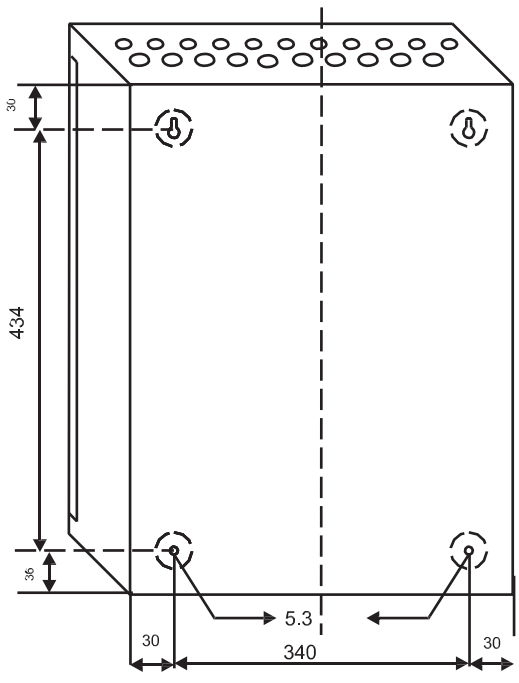
Programmable Input Circuit

Normal Operating Voltage	: 4 - 8 VDC.
Short Circuit Current	: 3mA Maximum.
Loop resistance	: 100Ω Maximum.
End-Of-Line Resistor	: 4K7, 1/2watt
Standby Current	: 1.25mA

Mechanical Specification:

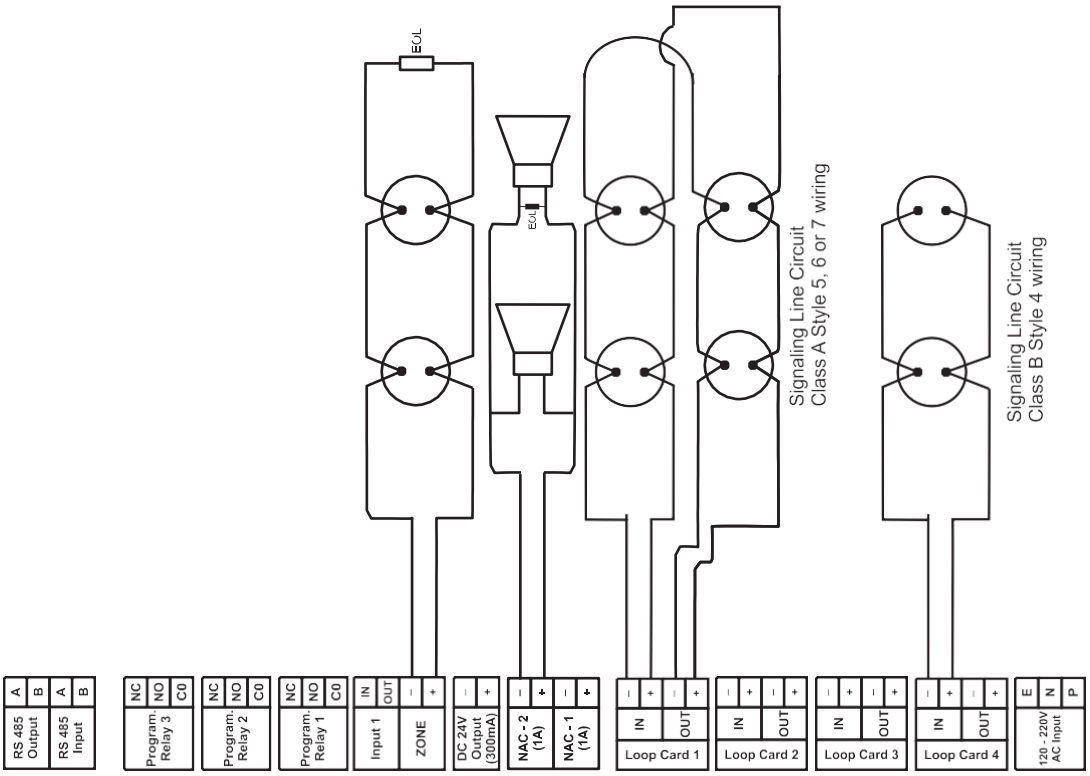
Dimensions	: (400W X 500H X 120D)mm
Color	: White / Red / Black
Construction	: 16 Gauge (1.6 mm) CRCA sheet with powder-coated Finish
IP Rating	: IP50
Cable Entry	: 9xø19mm Knockout in top of the cabinet 9xø22.25mm Knockout in top of the cabinet
Weight	: 13 Kg

Mounting Detail:



Note:- All Dimensions are in MM

Wiring Diagram:



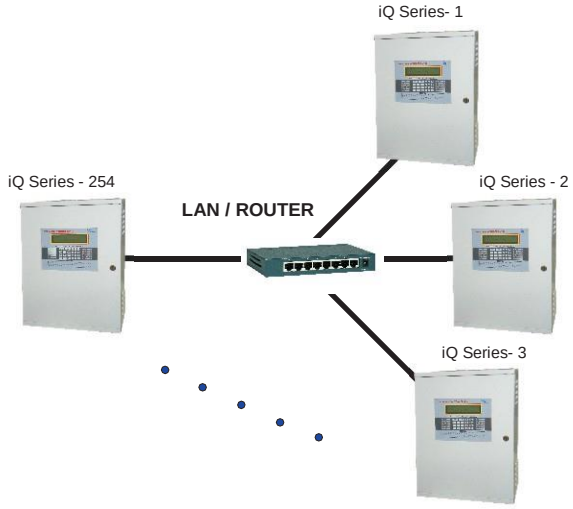
Note:

⊙*All the field wiring circuits are supervised*

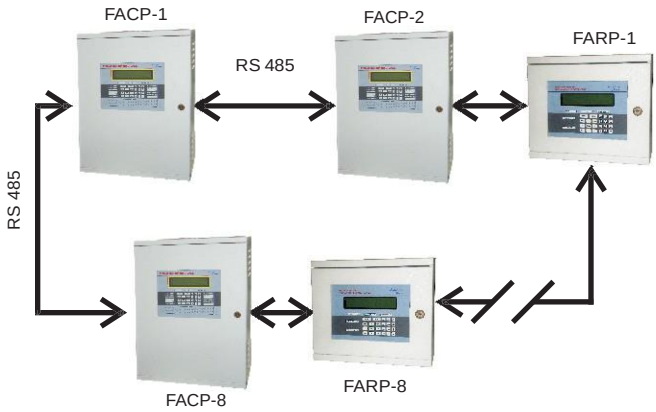
⊙*All the field wiring circuits are Power limited except 110-220v A.C and Battery.*

Initiating Device Circuit
Class B StyleB/C
End of Line - 4K7 1/2W
PN: RE4K7

IP Based Network



Peer To Peer Network



Compatible Devices:

MODELS	DESCRIPTION
iQ568-SH-L	Photoelectric & Heat detector
iQ568-S-L	Photoelectric smoke detector
iQ568-H-L	Heat detector
iQ 515 MC	Control Module
iQ 515MM	Monitor Module
iQ 515MR	Relay Module
iQ 515MI	Isolator Module
iQ 765M	Manual Call Point
iQ-517MT	8 Way Programmable Relay Card
iQ-517MB	Modbus Converter
iQ-517ME	Ethernet Module
iQ-517MP	Printer Module
iQ500 RP	Fire Alarm Repeater Panel
iQ 515BI	Isolator Base
iQ 500MP-A4	Mimic Display System - 32 LED Panel (Max)
iQ500MP-A3	Mimic Display System - 64 LED Panel (Max)
iQ500MP-A2	Mimic Display System - 128 LED Panel (Max)
iQ 500MP-AX	Mimic Display System - 512 LED Panel (Max)
FGMS-IT	Manual Pull station

Approval:

SIGNALING UL LISTED

Ordering Information:

MODEL	Loop
iQ Series - W / R / B	1,2,3 & 4 Loop

Note:

W - White Color

R - Red Color

B - Black Color

*In the interest of improving quality and design, FIREGUARD reserve the right to change the specification without prior notice.