

DESCRIPTION

Fireguard IQ600 is an Addressable Fire Alarm Control Panel designed for small to medium-scale facilities. It is ideally suited for both new and retrofit commercial, institutional, and industrial fire detection and notification applications. IQ600 is a state-of-the-art addressable fire control system that meets the requirements of UL864 10th. It supports up to 4 Addressable Signalling Line Circuits of 252 addressable devices/points per loop. It also has a capacity of 2 to 10 Notification Appliance Circuits and 4+1 form C dry relay contacts (4 relays are used for Fire Department connection). The IQ600 has a 7" LCD with 800 X 480 resolution, 6 auxiliary function keys, and 9 LED indicators making it a highly intuitive fire alarm user interface. It can be connected to 109 remote Panels and Annunciators via an external network to form a fire emergency detection and notification network system.



⚠ ATTENTION

Products must be installed per the National Fire Alarm Code, NFPA 72, and/or National Electrical Code, depending on the country of the installation. Check the information on equipment used in the system from other manufacturers for instructions and restrictions. The detector should never be installed in the following places: where there is a lot of exhaust gas, kitchens, near fireplaces, boilers, etc. Smoke detectors should not be used with detector guards unless the suit has been evaluated and approved for this case.

NOTE

Do not paint this unit. Any material extrapolated from this document or Fireguard's instructions or other materials describing the product for promotional or advertising purposes, or any other purpose, including the description of the application, the use, installation, and testing of the product is the sole responsibility of the user. Fireguard assumes no responsibility for the use. In no event shall Fireguard's liability exceed the purchase price of the product.

SPECIFICATION

General	Digital signal processor-based design, fully configurable from the front panel with password protection.
Environmental	» Operating temperature: 32°F - 122°F (0°-50°C) » Relative humidity: Up to 93% @ 90°F (32°C) » To be installed in a normal dry indoor environment only
Primary Supply	» 110 - VAC 50Hz/60Hz (3A) or » 220 - 240 VAC 50Hz/60Hz (1.5A)
Secondary Power Supply	Charging capacity: 40AH
Power Outputs	Internal Power supply for: » AMI User interface/display; » ALUs Addressable Loop Circuits; » NOUs Notification Appliance Circuits; » XNUs External Network Circuits » ROUs Relay Outputs Circuits; » Non-Resettable 4/Resettable Auxiliary Power Outputs(configurable); Power Limited: » 24VDC 1.2 Amps » Output current: 500mA in normal standby, 1200mA in alarm.
Relay Outputs	» One programmable relay » 4 non-programmable status relay. Status indicated are Alarm, Supervisory, Trouble, Monitor. » All relays are Form-C contacts » Contact Rating: 2A 30VDC

Network Circuit	» Class B Circuit » Up to 4 remote annunciator connection (limited by power) » Communication protocol: CAN » Max. line capacitance= 0.05uF » Max. line resistance= 25 Ohm
Notification Appliance Circuits (NAC)	» Up to 5 NOU cards supported (2 loop per card), total power available 8A » 2 Class A or 2 Class B circuits on each NOU » Maximum Current: 2A per NAC circuit » Alarm Voltage: 24 nominal » Bell code: Temporal
Addressable Loop Circuits	» Up to 4 loops per panel » Maximum Current (short): 0.4A » Class A/Class B Circuit » 252 addresses: the sum of detectors, modules, call point » Outputs voltage range: 20.2V ~ 26.2V » Maximum normal standby current: 100mA » Maximum alarm current: 220mA » Max. line capacitance= 0.1uF » Max. line resistance= 10 Ohm

INSTALLATION

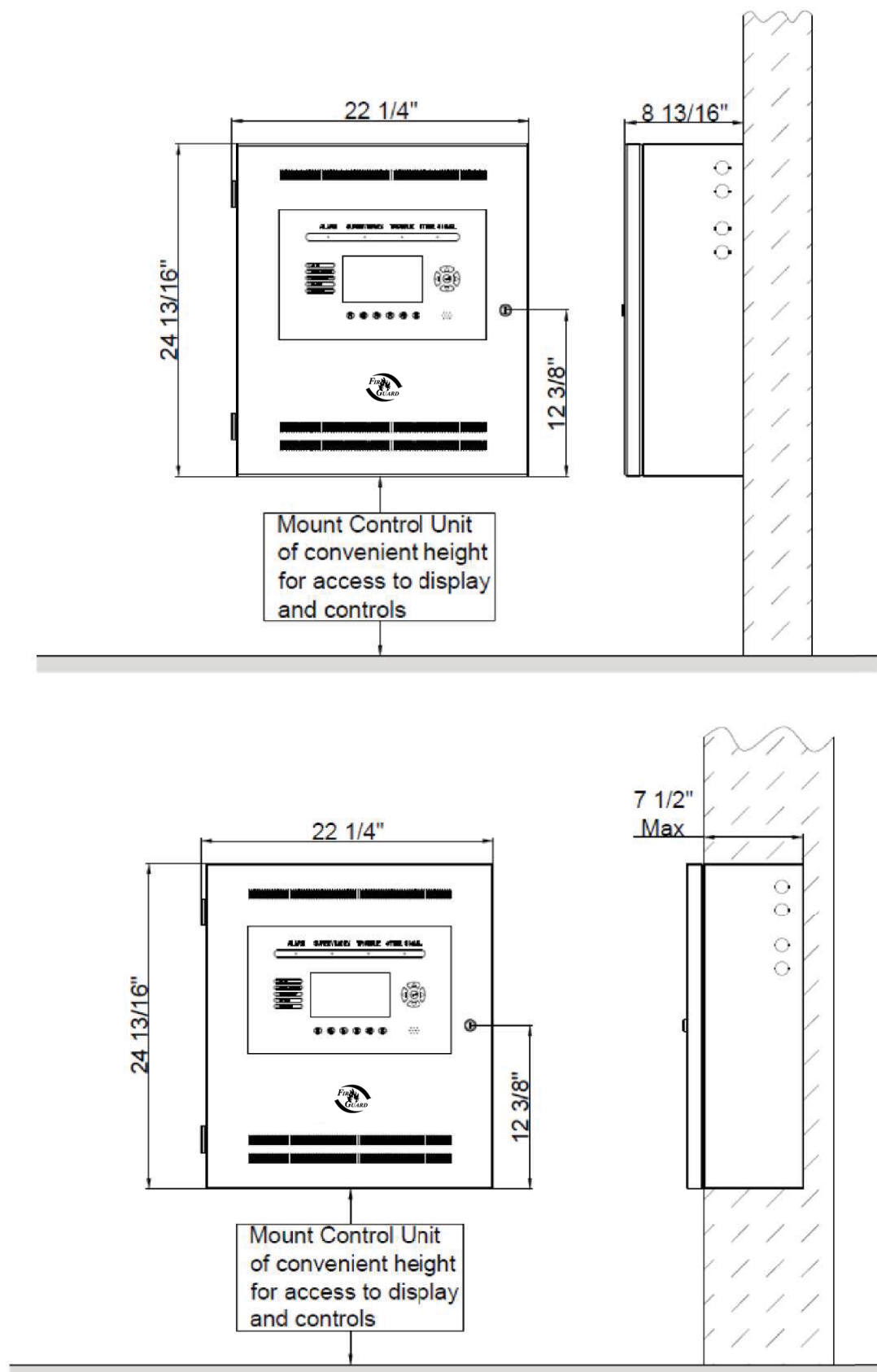


Figure iQ600 Enclosure Mounting Size

CATALOG NUMBER TO ORDER

IQ600	Expandable Addressable Panel 252 to 1008 point 1 AMI, 1 to 5 NOU, 1 to 4ALU, 1ROU, 0 to 1 XNU, 1PCU, 1PTU, Enclosure, Internal & External door with English silk screen
IQ600L	Addressable Loop Unit (ALU) 252 points
IQ600N	Notification Output (NOU) 2 Circuits class A or B AMP/Circuits
IQ600R	Relay Output Unit (ROU) 5relays
IQ600E	Class B External Network Unit (XNU)
IQ600PST	Power-supply and Transformer Unit (PTU)
IQ600PCU	Power-supply and Charger Unit (PCU)
PSI1272	Battery 12V 7.2 AH
PSI12120	Battery 12V 12AH
PSI12180	Battery 12V 18AH
PSI12420	Battery 12V 4AH