



Firewatcher Panel 106

FW106(R)/FW106(DG)



DESCRIPTION

FireWatcher FW106 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. FW106 is a state-of-the-art addressable fire control system that meets the requirements of UL864 10th edition and ULC S527. 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 FW106 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, CAN / ULC-S524, 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 Maple Armor'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. Maple Armor assumes no responsibility for the use. In no event shall Maple Armor's liability exceed the purchase price of the product.

INSTALLATION

The Firewatcher 106 panel must be wall-mounted as per UL and ULC standards.

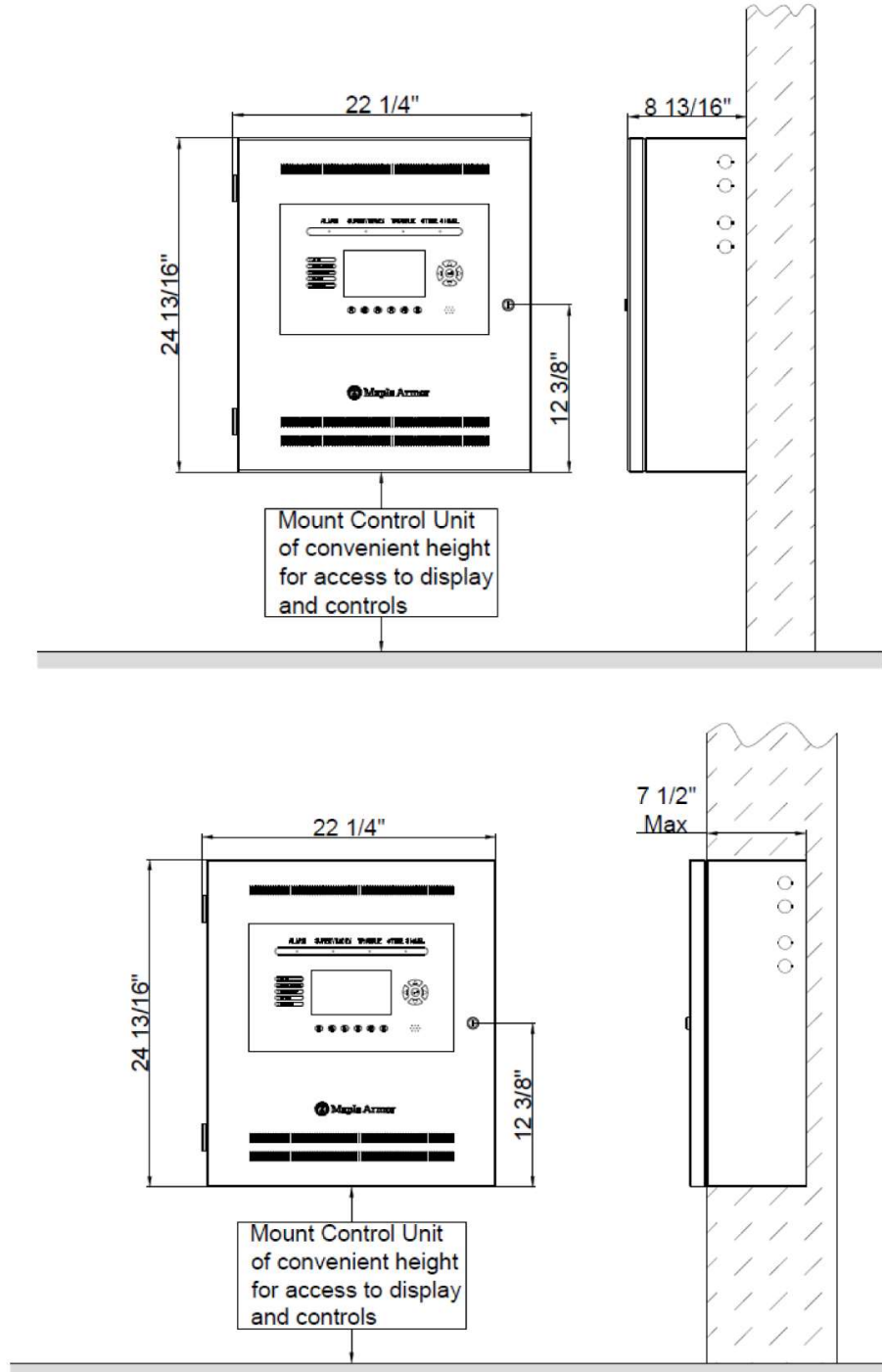


Figure 12 FW106/FW106C Enclosure Mounting Size

SPECIFICATION

General	Digital signal processor-based design, fully configurable from the front panel with password protection
Environmental	"Operating temperature - 32 - 120°F (0-49°C) Relative humidity - Up to 93% @ 90° F (32°C) To be installed in a normal dry indoor environment only
Primary Supply	"110 - 120 VAC 50Hz/60Hz (3A), or 220 - 240 VAC 50Hz/60H (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 Output Circuit; - Non-Resettable/Resettable Auxiliary Power Output (configurable); - Power limited; - 24 Vdc 1.2 Amps - Output current: 500 mA in normal standby, 1200 mA in alarm. "
Relay Outputs	"One programmable relay 4 non-programmable status relays Status: Alarm, Supervisory, Trouble, Other Form C contact Contact rating: 2A 30 Vdc."
Network Circuit	"Class B or Class X circuit For up to 110 panels and/or remote annunciators connection Communications protocol: CAN Max. line capacitance = 0.05 uF Max. line resistance = 25 Ohm"
Notification Appliance Circuits	"Class A/ Class B circuit Bell code: ANSI Temporal 2 to 10 circuits per panel 2 Amp per NAC Supervised wiring Synchronized Outputs"
Addressable Loop Circuits	"Maximum Current (Short): 0.4A Class A/ Class B circuit 252 addresses: detectors and modules max Output voltage range: 20.4V - 28V Normal standby current: 100mA / Alarm current: 220mA Up to 4 loops per panel"

CATALOG NUMBERS TO ORDER

Module	Description
FW106(R)	Expandable Red color Addressable Panel 252 to 1008 points 1 AMI, 1 to 5 NOU, 1 to 4 ALU, 1 ROU, 0 to 1 XNU, 1 PCU, 1 PTU, Enclosure, Internal & External door with English silkscreen
FW106C(R)	Expandable Red color Addressable Panel 252 to 1008 points 1 AMI, 1 to 5 NOU, 1 to 4 ALU, 1 ROU, 0 to 1 XNU, 1 PCU, 1 PTU, Enclosure, Internal & External door with French silkscreen
FW106(DG)	Expandable Dark Gray color Addressable Panel 252 to 1008 points 1 AMI, 1 to 5 NOU, 1 to 4 ALU, 1 ROU, 0 to 1 XNU, 1 PCU, 1 PTU, Enclosure, Internal & External door with English silkscreen
FW106C(DG)	Expandable Dark Gray color Addressable Panel 252 to 1008 points 1 AMI, 1 to 5 NOU, 1 to 4 ALU, 1 ROU, 0 to 1 XNU, 1 PCU, 1 PTU, Enclosure, Internal & External door with French silkscreen
FW327	Addressable Loop Unit (ALU) 252 points
FW337	Notification Output Unit (NOU) 2 circuits class A or B 2 AMP/circuits
FW347	Relay Output Unit (ROU) 5 relays
FW357	Class B External Network Unit (XNU)
FW 357A	Class X & Class B External Network Unit (XNU)
FW 391	Power-supply Transformer Unit (PTU)
FW 397	Power-supply and Charger Unit (PCU)
FW 421	End Of Line 10K resistor (EOLR)
FW 422	End Of Line Plate (EOLP)
FW 432(R)	Red color trim ring for FW106
FW 432(DG)	Dark Gray color trim ring for FW106
PS1272	Battery 12V 7.2 AH
PS12120	Battery 12V 12 AH
PS12180	Battery 12V 18 AH
PS12420	Battery 12V 42 AH