



## Firewatcher Panel 105

### FW105

#### DESCRIPTION

FireWatcher FW105 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. FW105 is a state-of-the-art addressable fire control system that meets the requirements of UL864 10th edition and ULC S527. It supports 1 Addressable Signalling Line Circuits of 252 addressable devices, 2 optional 4 class B isolated output units available. It also has 4 Class A/B Notification Appliance Circuits expandable to 8 with the optional 4 NAC Class A/B unit. The panel has 4 form C dry relay contacts (4 relays are used for Fire Department connection). The FW105 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. It also has builtin 30 zones switch/LED annunciator. Max 2 optional unit can be added.

#### 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

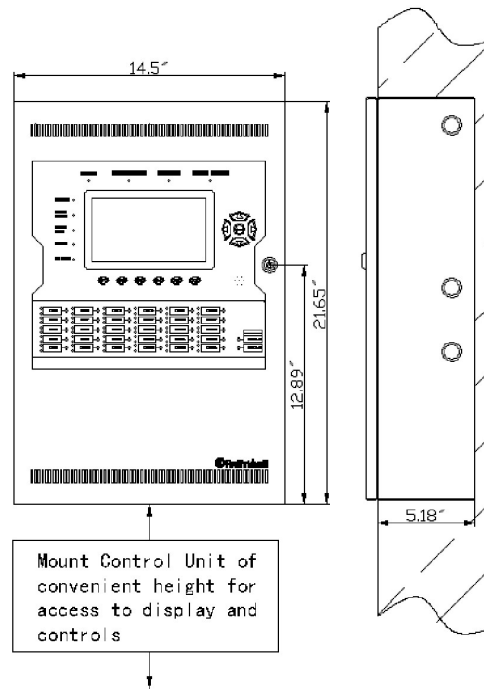
Do not paint this unit. Any material extrapolated from this document or Maple Armor's instructions or other materials describing the product for promotional or advertising purposes, or any other purpose, including the description of the application, the use, installation, and testing of the product



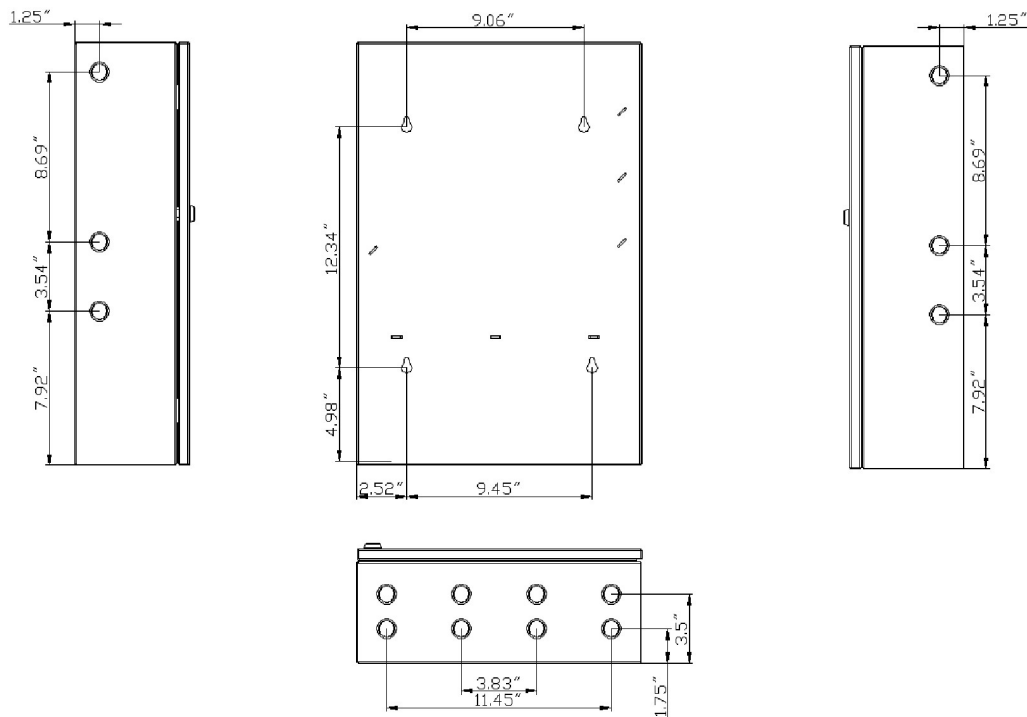
is the sole responsibility of the user. Maple Armor assumes no responsibility for the use. In no event shall Maple Armor's liability exceed the purchase price of the product.

## INSTALLATION

The Firewatcher 105 panel must be wall-mounted as per UL and ULC standards.



Surface-mounted or flush mounted



## SPECIFICATION

General	Digital signal processor-based design, fully configurable from the front panel with password protection with the capacity to add maximum 2 optional units
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 (5.2A), or 220 - 240 VAC 50Hz/60H (2.6A)"
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; - Two Non-Resettable/Resettable Auxiliary Power Output (configurable); - Power limited; - 24 Vdc 1.2 Amps - Output current: 510 mA in normal standby, 1A in alarm. "
Relay Outputs	4 non-programmable status relays Default 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 on Class B For up to 32 panels connection on Class A 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 4 circuits per panel plus 1 optional NOU (4 circuits) available, for a total of 8 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 1 loop per panel, 2 optional 4 class B isolated outputs units available
Local LED/Switch annunciator	30 zones (2 LEDs and 1 button per zone) for alarm/trouble events display & control

## CATALOG NUMBERS TO ORDER

Module	Description
<b>FW105(B)</b>	Expandable Black color Addressable Panel 252 points 1 AMI, 1 MFU(4 NACs, 1 SLC, 4 Relays, 1 Class X network, 1 Class B network), 1 PCU, 1 LDU, Enclosure, Internal & External door with pictograms.
<b>FW338</b>	Notification Output Unit (NOU) 4 circuits class A or B 2 AMP/circuits
<b>FW852</b>	Isolator Unit (ISU) 4 SLC isolator circuits
<b>FW301</b>	Multi-Function Unit (MFU) 4 NAC's, 1 SLC, 4 Relays Outputs, 1 Class X Network circuit and 1 Class B network circuit
<b>FW261</b>	For replacement LED Display Unit (LDU) 30 zones (2 LEDs and 1 key per zone) for alarm/trouble events display & control
<b>FW 390</b>	Power-supply and Charger Unit (PCU)
<b>FW 421</b>	End Of Line 10K resistor (EOLR)
<b>FW 422</b>	End Of Line Plate (EOLP)
<b>PS1272</b>	Battery 12V 7.2 AH
<b>PS12120</b>	Battery 12V 12 AH
<b>PS12180</b>	Battery 12V 18 AH