



BUILT IN CANADA FOR NORTH AMERICA · SINCE 2011

# Designed, engineered and built in Canada.

Addressable fire alarm systems, from control panels to detection, notification and agent release. Stocked and supported from Oakville, Brossard and Stafford, and backed by the people who design and build them.

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#### Canadian built

Engineering, manufacturing and support, close to your projects.

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#### UL · ULC

Listed fire alarm solutions for Canada and the United States.

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#### 5-year warranty

On every product we make, backed by in-house support.

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#### Non-proprietary

A network of certified dealers to install, program and service your system.

SAFER THAN EVER · FIRE SOLUTIONS

## WHO WE ARE

# A Canadian manufacturer since 2011

Maple Armor was founded in 2011 in Québec and is a Canadian manufacturer of advanced addressable fire alarm systems. At our Brossard plant on Montréal's South Shore, we bring product engineering, manufacturing and technical support together. From the panel to the field device, one manufacturer stands behind the system. Through our subsidiaries Finsecur (France), Detnov (Spain) and Fireblitz (UK) and a global distributor network, Maple Armor products protect buildings across the Americas, Europe and Asia.

### Canadian engineering

Built around North American projects

### In-house manufacturing

From housings to finished systems

### Local support

Québec · Ontario · Texas



Injection moulding of device housings, Brossard plant.



Surface-mount electronics assembly line, Brossard plant.

#### Designed and engineered in Canada

Our Canadian engineering team develops panels, devices and configuration software for North American projects, including two-stage operation and Positive Alarm Sequence.

#### A direct line to the manufacturer

Engineering, production, quality control, warehousing and technical support sit together at the Brossard plant, so a field question reaches the people who built the unit.

#### UL-audited production

UL-audited production and final testing bring quality control into the manufacturing process, before products reach your project.

##### STEP 1

#### Injection moulding

Device housings moulded on site

##### STEP 2

#### SMT assembly

Circuit boards placed and soldered

##### STEP 3

#### Final assembly and test

Every unit tested before it ships

##### STEP 4

#### Stock and ship

From Québec, Ontario and Texas

Our focus has not changed: protecting people and property in every building we serve, with equipment we design, build and stand behind ourselves.

# Six reasons to specify Maple Armor

## SERIES 2 ADDRESSABLE FIRE ALARM

**One Canadian manufacturer.  
One platform.  
One team behind it.**

From a single-loop panel in a store to a networked campus, the same panels, devices and configurator, built in Québec and backed for five years.



### Canadian manufacturer

01

Work directly with a Canadian manufacturer. Engineering, production and technical support come together at our Brossard plant, backed by teams in Ontario and Texas.

### Quality backed for five years

02

Our confidence in our products is built into our warranty: five years, backed by UL-audited production, product testing and in-house support.

### One panel that grows with the job

03

Start with a compact single-loop FW2105 and expand as the project grows. Add detection loops, notification circuits and networked panels through the same modular platform.

### Retrofit friendly

04

Make more of the equipment already in the building. Support for compatible conventional detectors, horns and strobes gives you a practical path from an existing installation to an addressable system.

### Non-proprietary

05

Choose from a network of Maple Armor certified dealers for installation, programming and ongoing service, with manufacturer support behind them.

### Easy to program

06

Build the job in the office with plain-language settings and drag-and-drop zone mapping. Arrive on site with the configuration ready to download. See page 12.

### Support from the people who build it

- Certified technicians for start-up and CAN/ULC-S537 verification
- Shop drawings for submittals
- Installer and technician training, in person and online
- Stock and shipping from Oakville, Brossard and Stafford

## MARKETS AND INSTALLATIONS

# Markets we protect. Proven in the field.

From residential communities to industrial facilities, Maple Armor systems protect buildings across Canada. FedEx Canada, Canadian Tire and the communities shown here demonstrate that reach in the field.



### Residential and multi-unit

Magnolia Gardens



### Commercial and offices

Ocean Sales Group · Calgary, AB



### Schools and universities

Dominican University College



### Hotels and resorts

Black Rock Oceanfront Resort · BC



### Industrial facilities

Nutri-Pea · Portage la Prairie, MB



### Supermarkets and retail

Canadian Tire



### Arts and culture

Thousand Islands Playhouse



### Warehouses and logistics

FedEx Canada · Winnipeg, MB

### Data centres

Early detection and clean-agent release, with release, abort and disconnect stations on the same loop.

### Battery energy storage

Detection and releasing for container and room installations, tied into the site fire alarm system.

## For your next build. For the buildings already in service.

A modular platform for new construction and retrofit, supported by local stock, certified dealers and the people who build the system.

FireWatcher Series 1 project portfolio. Discover the installations at [maplearmor.com/case-studies](https://maplearmor.com/case-studies).

# One platform, from panel to device



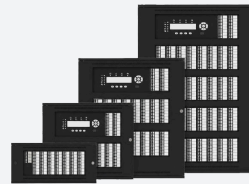
Control, detection, notification and agent release, with the devices and software to bring them together.



## Control panels

FW2105 addressable panel, 1 to 9 loops, up to 2,268 points, with the FW131 NAC booster. FW2107 agent release panel.

PAGES 6 AND 7



## Annunciators

FW2129 LED and LCD annunciators from one to five bays. FW2121 remote LCD annunciator.

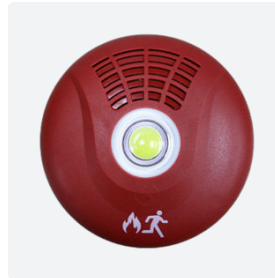
PAGE 8



## Initiating devices

Photoelectric smoke, heat and duct detection. Single- and dual-action manual stations, with single- and two-stage options.

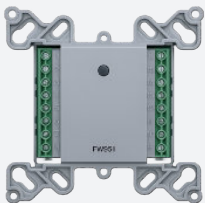
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## Notification appliances

Horns, strobes and horn/strobes in red or white, 520 Hz low-frequency models, sounder bases, mini horns.

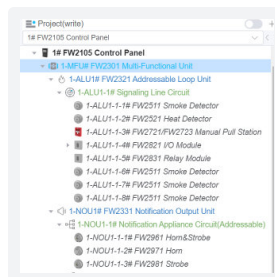
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## Modules and enclosures

Input, output, relay, zone and isolator modules, and surface-mount module boxes for up to 16 modules.

PAGE 11



## S2 Configurator

Prepare panel configurations in the office and download them on site.

PAGE 12

# A compact panel. Room to grow.



## FW2105 control panel

UL 864 10TH ED.   CAN/ULC-S527   **MADE IN CANADA**

Build the system around the project. The FW2105 combines a compact enclosure with modular expansion, from a standalone installation to a multi-panel peer-to-peer network.

Choose the loops, circuits and interfaces you need today, with room to expand. Configure from the front panel or prepare the job on a PC with the S2 Configurator.

### FEATURES

- 7" colour LCD (800 × 480), 12 LEDs, 6 function keys
- Networkable: standalone or multi-panel peer-to-peer network
- Ethernet for PC configuration; RS-232 for a printer
- Conventional and addressable devices on one panel
- USB port for job files and firmware updates
- Positive Alarm Sequence and two-stage operation
- Compact 14.5" enclosure fits between studs
- Event log: 4,000 alarms / 24,000 events
- 4 Form C relays: alarm, supervisory, trouble + programmable
- Class A/B SLC and NAC options · 10 A power supply

**MODULAR: CONFIGURED TO THE PROJECT**

**Base panel**  
AMI · MFU · PSU  
1 SLC · 4 NAC  
252 devices

+

**ALU**  
loop unit

**ISU**  
isolator

**NOU**  
notification output

**ZIU**  
conventional zones

**ANU**  
annunciator

**DACT**  
communicator

SLC LOOPS  
**1 → 9**

NAC CIRCUITS  
**4 → 12**

DEVICES  
**252 → 2,268**

ANNUNCIATORS  
**up to 32**

Maximum capacities depend on the installed option modules and are not all available simultaneously.

## FW131

Addressable NAC booster power supply

UL 864 · CAN/ULC-S527

An intelligent NAC power supply that extends the notification capacity of the system. It is supervised on the addressable SLC or driven by NAC pass-through, so large buildings add horns and strobes without adding panels.

- 8 Class A/B notification appliance circuits
- Up to 3 A per NAC (2 A regulated) · 10 A total
- 4" LCD with navigation buttons for local status and diagnostics

Control panels · FW2105 · FW131

maplearnor.com

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# Detection and release, working together

## FW2107 / FW2107M

Addressable agent release and fire alarm control panel

UL 864 · CAN/ULC-S527 · FM (FW2107M) · FCC

Intelligent fire suppression control panels that also serve as the fire alarm control panel for small and medium facilities: one listed panel for clean agent, pre-action and deluge releasing plus building alarm.

- Up to 2 releasing zones (FW2822 releasing module)
- 1 addressable SLC, 252 addresses
- 2 Class A/B notification appliance circuits
- 2.8" colour LCD display · red or black enclosure



## ONE COORDINATED PROTECTION SYSTEM

### DETECT

#### Intelligent detection

Addressable detection and configurable cross-zone logic bring the initiating devices into the releasing system.

### CONTROL

#### A coordinated response

Bring pre-discharge warnings, release timing and operator controls together in the panel configuration.

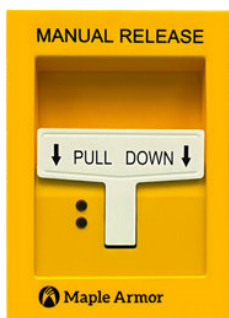
### RELEASE

#### Integrated supervision

Supervised releasing outputs and dedicated manual, abort and main/reserve stations complete the system.

## RELEASING DEVICES FOR THE FW2107

Addressable manual release, abort, disconnect and main/reserve stations complete the releasing system on the same SLC as the detection.



**FW2731**

Manual release station



**FW2732**

System abort switch



**FW2733**

Disconnect switch



**FW2734**

Main / reserve switch

# Clear status. Control where you need it.

## FW2129

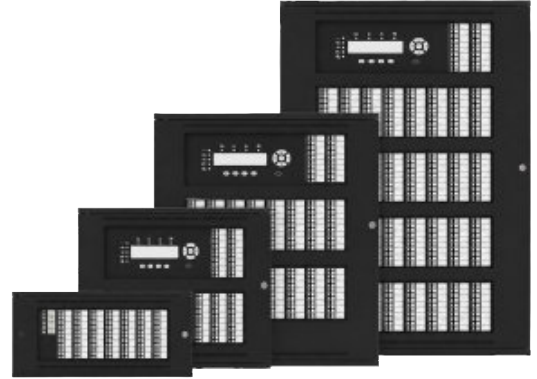
LED and LCD remote annunciators

UL 864 10th Ed. · CAN/ULC-S527 · FCC

Put the information operators need where they need it. The FW2129 combines configurable LED indications and LCD options in one-, two-, three- and five-bay enclosures, from a lobby display to a fire command centre.

### FEATURES

- Large capacity LCD and LED annunciation
- Class A/B annunciator bus
- Flexible bus and power configurations
- Programmable multi-colour LEDs
- Slide-in labels
- Surface and flush mounting
- Enclosures from 1 to 5 bays
- -10 °C to 55 °C (14 °F to 131 °F), 0 to 95 % RH



SCALES 1-BAY → 5-BAY



## FW2121

Remote LCD annunciator

UL 864 10th Ed. · CAN/ULC-S527 · FCC

A compact LCD annunciator for remote event display, acknowledgement, alarm silence and reset.

- Backlit LCD with 320 × 80 resolution
- 9 keys (5 navigation + 4 function) and 9 LED indicators
- Two-wire operation, Class A or B
- Powered by the main panel

### Tailored to the building

Give operators a clear view of the building with named zones, dedicated LED indications and selected LCD events. Update display assignments in the S2 Configurator as the building changes.

# Detection for every part of the building

Smoke and heat detection, duct monitoring and manual stations bring every alarm input into one addressable system.

- Fully addressable initiating devices, one address each
- 4" and 6" detector bases; standard and 520 Hz low-frequency sounder bases
- Single and dual action, single and two-stage manual stations
- Diagnostic LED device status indication
- Multiple mounting options
- Compatible with the FW2105 and FW2107 panels

## DETECTION



**FW2511**  
Photoelectric smoke detector



**FW2521**  
Heat detector



**FW562C + FW2561-RI**  
Duct smoke detector + relay interface

Detector heads twist onto the FW2501 4" or FW2502 6" base, or onto the FW2509 and FW2508 sounder bases (page 10) where the room needs its own audible signal.

## MANUAL STATIONS



**FW2721**  
Dual action, single stage



**FW2722**  
Two stage



**FW2723**  
Single action, single stage

# Horns, strobes and sounder bases

Indoor horns, strobes and horn/strobes provide audible and visual notification. Standard and 520 Hz models offer addressable or conventional operation; sounder bases add local notification beneath compatible detector heads.

- Horns and strobes: addressable or conventional operation
- Strobe models: six settings, 15 to 177 cd
- Selectable sound levels and patterns, depending on model
- Standard and 520 Hz low-frequency models
- Temporal 3, temporal 4, steady and coded patterns
- Synchronised flash and tone across the loop
- Horn/strobe families: red or white, wall or ceiling mounting
- Mounting options vary by model
- Energy-efficient LED strobe technology
- -10 °C to 55 °C (14 °F to 131 °F), 0 to 95 % RH

## One device. Two operating modes.

FW2961, FW2971, FW2981, FW2963, FW2973 and FW2972M notification appliances support both addressable and conventional operation. Addressable mode provides device location and status at the panel. Conventional mode connects to a compatible notification appliance circuit (NAC).

## STANDARD APPLIANCES



**FW2961**

Horn/strobe · red or white



**FW2971**

Horn · red or white



**FW2981**

Strobe · red or white



**FW2972M**

Mini horn · with or without silence button

## LOW-FREQUENCY APPLIANCES AND SOUNDER BASES



**FW2963**

520 Hz horn/strobe · red or white



**FW2973**

520 Hz horn · red or white



**FW2509**

Sounder base · standard



**FW2508**

Sounder base · 520 Hz low frequency

### Sounder bases

FW2509 standard and FW2508 520 Hz sounder bases work with FW2511 and FW2521 detector heads. Three sound levels and selectable patterns support local or grouped operation, without an additional SLC address.

### Mini horn for suites

The FW2972M family provides compact in-suite notification with three sound levels. FW2972MS variants include a silence button with automatic resounding after ten minutes.

### 520 Hz for sleeping areas

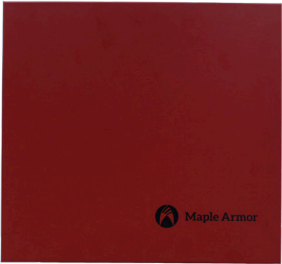
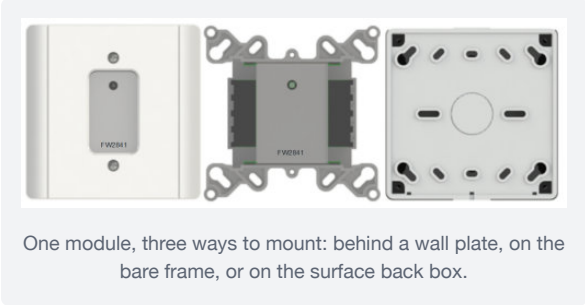
Specify 520 Hz notification where required by the applicable sleeping-area design. Choose the FW2973 horn, FW2963 horn/strobe or FW2508 sounder base to suit the installation.

# Connect the building to the system

## Addressable modules

Bring sprinkler monitoring, door holders, elevator recall, HVAC shutdown and releasing interfaces into the fire alarm system. A choice of input, output, relay and zone modules makes it straightforward to match the interface to the equipment.

| MODEL   | MODULE                  | TYPICAL USE                                            |
|---------|-------------------------|--------------------------------------------------------|
| FW2811  | Single input            | Waterflow, tamper, supervisory switches                |
| FW2811M | Mini single input       | Fits inside the device box it monitors                 |
| FW2812  | Dual input              | Two contacts, one address                              |
| FW2821  | Supervised output       | One dry-contact input and one supervised 24 VDC output |
| FW2822  | Releasing               | Supervised solenoid circuit for agent release          |
| FW2823  | Dual input / dual relay | Two inputs and two control relay outputs               |
| FW2831  | Relay                   | Door holders, elevator recall, HVAC shutdown           |
| FW2841  | Conventional zone       | Conventional detectors on the addressable loop         |
| FW2851  | Isolator                | Isolates a short circuit; no SLC address required      |



## FW434 / FW435 module box

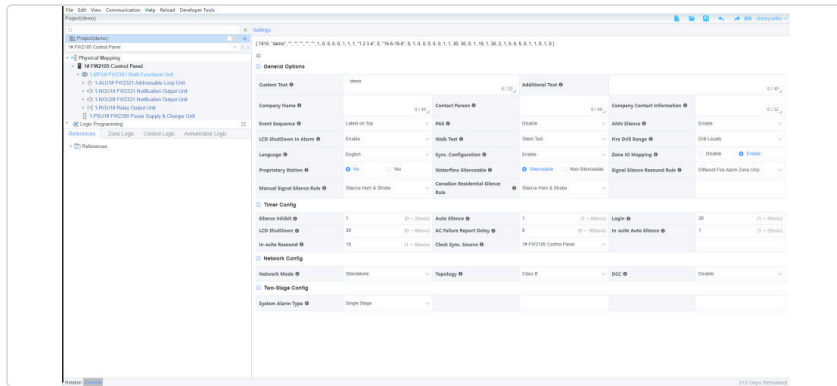
Surface-mount multi-module enclosures for up to 16 (FW434) or 8 (FW435) modules, in dark grey or red. Keeps interface modules together, labelled and serviceable in the electrical room instead of scattered above the ceiling.

### One order, one manufacturer, one warranty

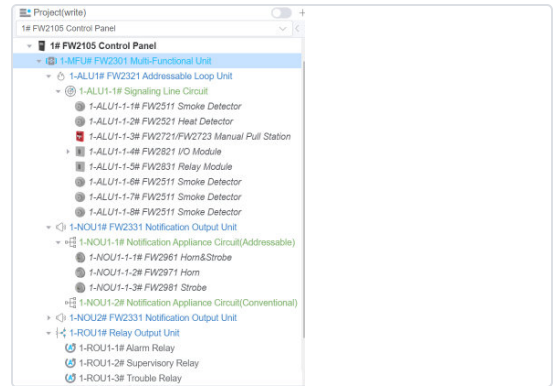
Panels, annunciators, detection, manual stations, notification, modules and enclosures all ship from Maple Armor, under the same 5-year warranty and the same support team.

# Prepare in the office. Commission on site.

The S2 Configurator brings panel setup, device scheduling and zone logic into one visual workspace. Prepare the job before the site visit, then connect, download and commission.



Plain-language settings with drop-downs. No command codes to memorise.



The system tree reads like the building: panel, unit, circuit, device.

## A clear view of the system

The project tree mirrors the installed system: panel, unit, circuit, device. Click any item and its settings appear. Every device carries a plain-text label, so event displays can identify locations such as "Level 2 corridor west".

## Batch device entry

Insert devices one at a time or in batches. Fill the Excel template from the device schedule and import it, or copy and paste straight from a spreadsheet. Address ranges fill automatically.

## Zone mapping and control logic

Drag a device into a zone and it belongs to that zone. Turn on Zone I/O Mapping and any input in a zone automatically drives every output in the same zone. For more detailed sequences, build conditions and actions with AND, OR and COUNT logic, then verify the programmed behaviour during commissioning.

## One file, one download

Connect by Ethernet or USB and download the job. Upload the panel's history and detector sensitivity report for the verification package. Autosave, timestamped backups and undo/redo help manage configuration revisions.

## HOW ZONE MAPPING WORKS

### INPUTS

#### Detectors and pull stations, level 3

Drag each device into the zone. One event zone per device sets what it reports: alarm, supervisory or trouble.



### ZONE

#### "Level 3"

The building block of the whole configuration. Up to 7 more functional zones per device for outputs and logic.



### OUTPUTS

#### Horns, strobes, relays, annunciator LEDs

Zone I/O Mapping on: outputs in the zone follow the inputs automatically. Floors above and below? Drag "Level 2" and "Level 4" into the action.

## One workflow, from setup to handover

Import the device schedule. Build the zones. Download the configuration. Retrieve panel records for the handover package. In-house training helps your team put the tools to work.

The FW2105 also supports full configuration from its front panel.



# Designed, engineered and built in Canada.

FIRE ALARM SYSTEMS FOR CANADA AND THE UNITED STATES



## Let's talk about your next project.

Bring us your next project. Our team can help with product selection, drawings, training and start-up, backed by a certified dealer network and an industry-leading five-year warranty.

**[maplearmor.com](https://maplearmor.com)**

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electronics assembly

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