

Protocol Converter Module

FW2845



Overview

The FW2845 Protocol Converter Module is an intelligent, addressable device designed to operate with a Maple Armor fire alarm control panel(s). It requires one address on the signaling line circuit (SLC).

It is used to provide a communication interface to connect the FW562(C) duct detector to Maple Armor's Series 2 Fire Alarm Control Panels (FW2105 & FW2107). Each module supports one duct detector.

This module supports one duct detector in a Class B output circuit topology.

It is a UL-listed device, according to UL864 and ULC-S527, for indoor use in fire protective signaling systems.

Features

- Durable material and solid parts
- Visible status LED indicator for alarm and trouble
- Easy installation
- Supports Class B output circuit
- Mounts to a standard 4-inch square electrical box
- For dry indoor installation
- Address programmed via handheld programmer

Compatibility

The FW2845 module is compatible with the Maple Armor Series 2 Control Panels.

- FW2105 – Fire Alarm Control Panel
- FW2107 – Releasing Panel

Note: refer to each panel data sheet for more information.

Operation

Set the device address using the Maple Armor handheld programmer FW2845 before connecting the module to the SLC and wire the output circuit to the duct detector.

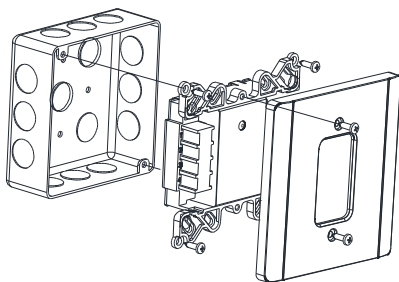
Diagnostic LED

The module features a red diagnostic LED on the front to provide a visible indication. The LED flashes every 4 seconds in standby conditions.

If the FW562(C) initiates an alarm event, the module LED will turn steady ON, when the FW562(C) is in trouble condition the module LED will flash every 1 second.

Installation

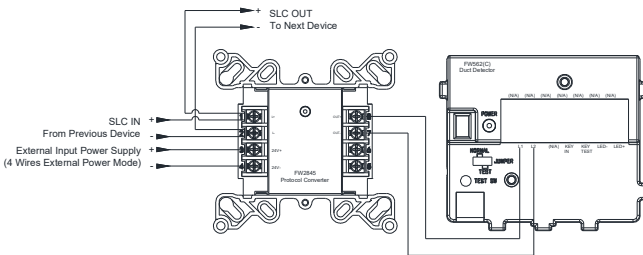
The FW2845 Input module can be flush mounted to standard North American 2x4 and 4-inch square boxes. A Maple Armor plastic surface box is also available.



This device requires electrical power to operate. Since fires often cause power interruptions, we recommend consulting your local fire protection specialist for additional safeguards.

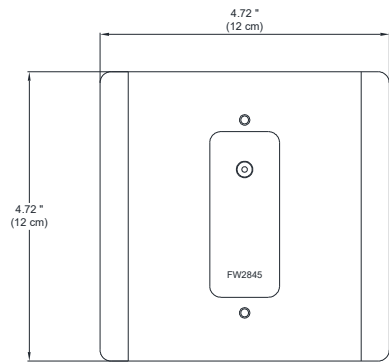
Wiring

Field wiring is to be completed using the screw terminals on the module. The terminals are suited for 18 to 12 AWG (0.82 mm² to 3.31 mm²) wire size.



Note: check module installation instruction sheet for more installation and wiring options and details.

Dimensions



Testing & Maintenance

Before testing, notify the appropriate authorities that the system will be out of service and disable it to prevent unwanted alarms. Verify the module's indicator LED flashes every 4 seconds; no flash or a 1-second flash rate indicates a fault—check wiring and remount if necessary. Activate the duct detector; the LED should turn solid red, and the control panel's LCD should display the corresponding alarm event. Upon completion, restore the system to normal operation and notify the authorities.

Specifications

Nominal Voltage	24 VDC
Operating Voltage Range	13 to 28 VDC
External Input Power Supply	24VDC (nominal) 15.4VDC to 26.4VDC
Output SLC Voltage Range	22.4 to 24.3VDC
Standby Current	2 Wire SLC Mode : SLC $\leq$ 17mA 4 Wire Ext Power Mode : SLC $\leq$ 2.6mA Ext Power $\leq$ 21mA
Active Current	2 Wire SLC Mode : SLC $\leq$ 24mA 4 Wire Ext Power Mode : SLC $\leq$ 2.9mA Ext Power $\leq$ 23mA
Output circuit topology	Class B
Max. Line Impedance	25 Ω for output Circuit 6.6 Ω for Grounding
Recommended Test Impedance	0.1 Ω for Short Circuit trouble
Compatible Device	FW562(C) Duct Smoke Detector
Operating Temperature	-10° C to 55° C (14° F to 131° F)
Operating Humidity	0 to 95% RH Non-condensing
Installation Environment	Dry indoor use only
Housing Material	High impact plastic
Dimension	120 mm (L) x 120 mm (W) x 45 mm (H)
Wire Connections	Screw terminal
Wire Size	18 to 12 AWG (0.82 mm ² to 3.31 mm ²)
Regulatory Compliance	UL/ULC, FCC, CSFM

Ordering Information

Model	Description	Ship Wt. Kg (lbs)
FW2845	Protocol Converter Module	0.140 (0.31)
Accessories		
FW800	Surface Mount Box, Plastic	0.117 (0.26)
FW801	Deep Surface Mount Box, Plastic	0.137 (0.30)

**Accessories are ordered separately.*



This document is for marketing and informational purposes only. It is not intended to be used for installation, operation, or maintenance of the device.

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For complete and accurate installation instructions, wiring details, and operational guidelines, refer to the official Device Installation Sheet provided with the product. The manufacturer reserves the right to make changes to product specifications without prior notice.