



# INSTALLATION INSTRUCTIONS FOR FFO-ZM CONVENTIONAL ZONE MODULE

The information contained in this installation instruction is to be used as quick reference guide. For detailed system information, refer to the panel's installation manual.

## GENERAL DESCRIPTION

This instruction applies to the Conventional Zone Module (FFO-ZM), which is to be connected to a Signal Line Circuit (SLC). The module allows the analog panel to interface and monitor dry contacts such as pull stations and two-wire conventional smoke detectors. The "FFO-ZM" is addressed through the communication line of the system and transmits the status of one zone of devices to the panel. Status conditions are reported as normal, open or alarm. It supervises the external power supply as well as the entire zone of devices.

NOTE: Please reference the 2 wire detector compatibility matrix on the preceding page for a complete list of devices approved for use with the "FFO-ZM"

## MOUNTING REQUIREMENTS

The (FFO-ZM) Conventional Zone module is mounted as shown in Figure 2 on page 1 of this instruction.

## WIRING

NOTE: All wiring must conform to local codes, ordinances and regulations.

- 1) Install module wiring in accordance with the job drawings and appropriate wiring diagram (see Fig.3).
- 2) Secure the module to a U.L. listed electrical box (supplied by installer), as shown in Figure 2.

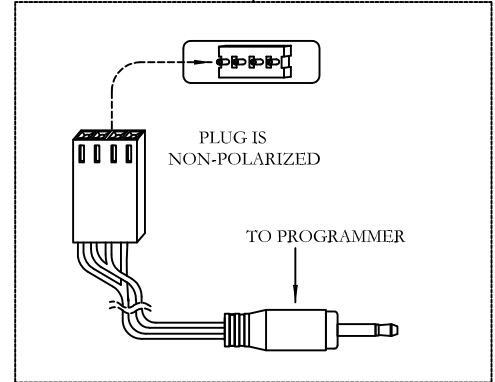
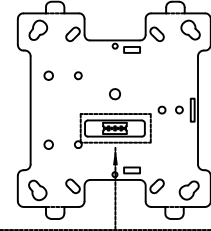


FIGURE 1.  
EXPLODED VIEW OF ADDRESS PROGRAMMING PLUG AND CONNECTOR

### CAUTION!

Install the modules in this instruction in accordance with applicable NFPA standards, local codes, and the authorities having jurisdiction. Failure to follow these instructions may result in failure of the system to operate as intended. Hochiki America is not responsible for modules that have been improperly installed, tested, or maintained.

### CAUTION!

To ensure proper operation connect this module to a compatible Fire Control Panel only. Refer to panel instructions for proper connection and compatibility.

### CAUTION!

If this module will be installed in an existing operation system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the module

## SPECIFICATIONS

SLC Applied Voltage	Rated Range 25.3 - 39 VDC
SLC Current Consumption	Maximum 720µA Nominal 670µA
Auxiliary Applied Voltage	Maximum 27.2VDC Nominal 18.8VDC
2-Wire Detector Loop Current (Auxiliary Supply)	Standby Detector Load - 1mA Max Alarm (Short across detector line) - 60mA Max
Maximum Output Current (OUT+/OUT-, IN+/IN-)	2A @ 30VDC
EOL Device for OUT+ & OUT-	HOCHIKI AMERICA CORP. EOL Part No. 0400-01820 4.7KΩ, 1/4watt, 1/4inch
Alarm threshold level	<1.5KΩ
Wiring OK threshold level	>2.5KΩ & <6KΩ
Open Circuit threshold level	>10KΩ
Max. 2-wire Conventional Detector Loop Resistance	50Ω (for both legs)
Visual Indicator (Status LED)	bi-color LED - Green & Red Color & Mode - Selected and Programmed by Control Panel's software
Operating Temperature Range	0°C (32°F) ~ 49°C (120°F)
Storage Temperature Range	-30°C (-22°F) ~ 60°C (140°F) (80% RH @ 60°C)
Maximum Relative Humidity	10% - 85% RH non-condensing
Environment	Indoor dry use only
Dimensions	4.2"W X 4.7"H X .85"D
Weight	Approximately 3.0 ounces

NOTE: An average of 6.75mA (communication current) per loop of SLC devices, must be factored into the panel battery backup calculations.

NOTE: Maximum Ripple Voltage 2VDC P-P

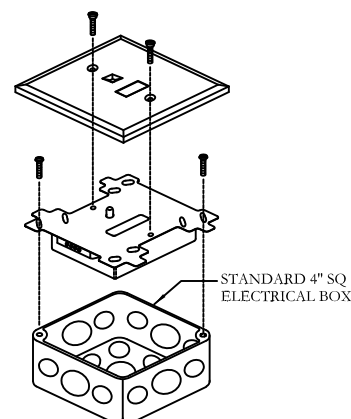


FIGURE 2  
TYPICAL MOUNTING ARRANGEMENT