



## 2W-MOD2 2-Wire Loop Test/ Maintenance Module



The 2W-MOD2 two-wire loop test/maintenance module maximizes the benefits of the i<sup>3</sup>™ Series smoke detectors by offering detector remote maintenance signaling and EZ Walk loop testing capabilities.

### Features

- Allows all 2-wire i<sup>3</sup> detectors to be used on any compatible 2- or 4-wire fire alarm control panel
- Interprets the i<sup>3</sup> remote maintenance signal
- Provides visual indication and an output relay when a detector on the loop requires cleaning
- Initiates the EZ Walk loop test
- Provides Style D wiring on IDC loops
- Has green, red, and yellow LEDs that indicate
  - Loop communication status
  - Maintenance alert
  - Freeze trouble
  - Alarm
  - EZ Walk test enabled
  - Wiring fault

**Installation ease.** The 2W-MOD2 two-wire loop test/maintenance module mounts to a 4-inch square back box for quick and easy installation. Terminal blocks with durable SEMS screws assure a reliable connection.

**Intelligence.** The 2W-MOD2 two-wire loop test/maintenance module allows communication to 2-wire i<sup>3</sup> detectors with any listed fire alarm control panel. These i<sup>3</sup> detectors can initiate a remote maintenance signal when they need cleaning and can provide a visual indication of this condition at the module and at the panel. The 2W-MOD2 module also features the EZ Walk loop test for 2-wire i<sup>3</sup> series detectors. This function verifies the entire initiating loop wiring with just the press of a button.

**Instant inspection.** The 2W-MOD2 two-wire loop test/maintenance module's green, red, and yellow LEDs provide status indication for the loop. These LEDs indicate loop communication status, maintenance alert, alarm, freeze trouble, EZ Walk test enabled, and wiring fault.

### Agency Listings



## 2W-MOD2 Specifications

### Architectural/Engineering Specifications

Loop test/maintenance module shall be System Sensor i<sup>3</sup>™ Series model number 2W-MOD2, listed to Underwriters Laboratories UL 864 for Control Units for Fire Protection Signaling Systems. The module shall include provisions for mounting to 4-inch square back boxes. Wiring connections shall be made by means of SEMS screws. The module shall provide three LED indicators which will blink or illuminate to indicate communication status, maintenance alert, alarm or freeze trouble conditions, and EZ Walk loop test mode. The module shall allow communication to 2-wire i<sup>3</sup> detectors with any UL listed fire alarm control panel. The 2W-MOD2 module shall offer provisions for Style D wiring on IDC loops, and shall provide a loop testing capability to verify the initiating loop wiring.

### Physical Specifications

<b>Dimensions</b>	4.5 in H x 4.0 in W x 1.25 in D (114 mm x 101 mm x 32 mm)
<b>Weight</b>	8 oz. (225 grams)
<b>Operating Temperature Range</b>	14°F to 122°F (-10°C to 50°C)
<b>Operating Humidity Range</b>	0% to 95% RH non-condensing
<b>Input Terminals</b>	14 to 22 AWG
<b>Mounting</b>	4-inch square back box

### Electrical Specifications

<b>Operating Voltage</b>	Nominal: 12/24 V Min: 8.5 V power limited Max: 30 V power limited
<b>Maximum Ripple Voltage</b>	30% of applied voltage (peak to peak)
<b>Maximum Standby Current</b>	30 mA
<b>Maximum Alarm Current</b>	90 mA
<b>Maximum Maintenance Current</b>	53 mA
<b>Alarm Contact Ratings</b>	0.5 A @ 36 VDC, Resistive
<b>Maintenance Contact Ratings</b>	2 A @ 30 VDC, Resistive

### LED Modes

LED Color	Status	Condition
Green	On	Power on. Detectors on loop do not have communication capability.
	Blinking 1 sec on / 1 sec off	Power on. Detectors on loop are communicating normally.
	Off	Power not applied or module not in operation.
Red	On	Detector on loop in alarm.
	Blinking 1 sec on / 1 sec off	One or more detectors on loop is in need of maintenance or is in freeze trouble.
Yellow	On	Loop wiring fault exists.
	Blinking 0.5 sec on / 0.5 sec off	Module is in EZ Walk test mode.

### Power-up Sequence for LED Indication

Condition	Duration
Initial LED status indication	2 minutes
EZ Walk test available	6 minutes after reset

## Ordering Information

Part No.	Description
2W-MOD2	2-wire loop test/maintenance module for 2-wire i <sup>3</sup> series standard, sounder, and Form C relay smoke detectors



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