i³ Series
2-Wire Loop Test/
Maintenance Module

SYSTEM SENSOR®

Models Available

2W-MOD2 — 2-wire loop test/maintenance module for 2-wire i³ series standard, sounder, and Form C relay models

(Replaces Model No. 2W-MOD)

Product Overview

Allows all 2-wire i³™ detectors to be used on any compatible 2- or 4-wire fire alarm control panel

Interprets the i³ 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

Green, red, and yellow LEDs indicate
- **Loop communication status**
- **Maintenance alert**
- **Freeze trouble**
- **Alarm**
- **EZ Walk test enabled**
- **Wiring fault**

System Sensor's 2W-MOD2 two-wire loop test/maintenance module maximizes the benefits of the i³™ series smoke detectors, by offering detector remote maintenance signaling and EZ Walk loop testing capabilities.

Installation ease. The 2W-MOD2 mounts to a 4″-square back box for quick and easy installation. Terminal blocks with durable SEMS screws assure a reliable connection.

Intelligence. The 2W-MOD2 allows communication to 2-wire i³ detectors with any listed fire alarm control panel. This in turn enables i³ detectors to initiate a remote maintenance signal when they are in need of cleaning, and to provide a visual indication of this condition at the module and at the panel. The 2W-MOD2 also features the EZ Walk loop test for 2-wire i³ series detectors. This function verifies the entire initiating loop wiring with just the press of a button.

Instant inspection. The 2W-MOD2 includes three LEDs — green, red, and yellow — that provide status indication for the loop. These LEDs indicate the following:
- Loop communication status
- Maintenance alert
- Alarm
- Freeze trouble
- EZ Walk test enabled
- Wiring fault

UL LISTED
S3705

FM APPROVED
3015195

MEA approved
4-03-E

7300-1209

Architect/Engineer Specifications

Loop test/maintenance module shall be a System Sensor i^3 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^3 detectors with any UL listed fire alarm control panel. The 2W-MOD2 shall offer provisions for Style D wiring on IDC loops, and shall provide a loop testing capability to verify the initiating loop wiring.

Electrical Specifications

Operating Voltage
Nominal: 12/24 V
Min.:   8.5 V power limited
Max.:   30 V power limited

Maximum Ripple Voltage
30% of applied voltage (peak to peak)

Maximum Standby Current
30 mA

Maximum Alarm Current
90 mA

Maximum Maintenance Current
53 mA

Alarm Contact Ratings
0.5 A @ 36VDC, Resistive

Maintenance Contact Ratings
2 A @ 30VDC, Resistive

LED Modes

LED Color	Status	Condition
Green LED	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 LED	On	Detector on loop in alarm.
	Blinking 1 sec. on / 1 sec. off	One or more detector on loop is in need of maintenance or is in freeze trouble.
Yellow LED	On	Loop wiring fault exists.
	Blinking 0.5 sec. on / 0.5 sec. off	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

Physical Specifications

Operating Temperature Range
14°F–122°F (–10°C to 50°C)

Operating Humidity Range
0 to 95% RH non-condensing

Input Terminals
14–22 AWG

Dimensions
Height: 4.5 inches (114 mm)
Width: 4.0 inches (101 mm)
Depth: 1.25 inches (32 mm)

Weight
8 oz. (225 grams)

Mounting
4-inch square back box

Ordering Information

Model	Description
2W-MOD2	2-wire loop test/maintenance module for 2-wire i^3 series standard, sounder, and Form C relay smoke detectors

System Sensor Sales and Service

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System Sensor in China
Ph: 86.29.8832.0119
Fx: 86.29.8832.5110

System Sensor in Singapore
Ph: 65.6273.2230
Fx: 65.6273.2610

System Sensor – Far East
Ph: 85.22.191.9003
Fx: 85.22.736.6580

System Sensor – Australia
Ph: 613.54.281.142
Fx: 613.54.281.172

System Sensor – India
Ph: 91.124.637.1770 x.2700
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System Sensor – Russia
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