![System Sensor logo]

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

The 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.

Features

• 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

• 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 i³ detectors with any listed fire alarm control panel. These i³ 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 i³ 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

UL LISTED	FM APPROVED		MEA approved
S3705	3015195	7300-1653:166	4-03-E

2W-MOD2 Specifications

Architectural/Engineering Specifications

Loop test/maintenance module shall be System Sensor i³™ 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 i³ 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

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

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 @ 36 VDC, Resistive
Maintenance Contact Ratings	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 i³ series standard, sounder, and Form C relay smoke detectors