

Date: February 7, 2018
To: All Kidde Fire Systems Engineered Distributors
From: Product Management
Subject: NEW SmartONE™ Addressable Input (AI) Modules

**New SmartONE™ Addressable Input (AI) Modules,
Backwards Compatible With Improved Functionality**

**IMPORTANT NEW PRODUCT INFORMATION –
PLEASE IMMEDIATELY SHARE WITH SALES, DESIGN & PURCHASING**

Kidde Fire Systems is pleased to announce the upcoming release of a new series of AI modules that will replace the existing modules. We are providing this advance notice to assist your planning of current and future installations.

The future SmartONE protocol-based Addressable Input (AI) modules are completely backward compatible and share the same footprint and wiring connections. The new modules provide the following improvements:

IDC Circuit Classification: Style B Class B for KF Addressable Control Units (Single Loop and Multi Loop products). This circuit classification means that the IDC will report alarm conditions in the presence of a single ground fault.

Increased Loop Resistance: The input circuit loop resistance of the new module has been increased to a maximum of 100 ohms total (for the two conductors). This means that ~1700 feet of Kidde LHS Sensor can be supported on the new AI module (versus ~800 feet on the current version) thereby reducing your system material and installation cost.



New Addressable Input Module

NEW SmartONE Addressable Input Module Part Numbers

New Part Number	Description	Replaced Legacy Products
70-417008-001	Addressable Input (AI) Module for normally–open initiating devices (replaces 70-407008-001)	70-407008-001
70-417018-001	Addressable Input (AI) Module for normally–open initiating devices, non silicone (replaces 70-407018-001)	70-407018-001
70-417008-002	Addressable Input (AI) Module for normally–closed initiating devices (replaces 70-407008-002)	70-407008-002

Complete information on the new AI modules including Data Sheets and Installation Instructions can be found on the Distributor Extranet: www.kiddefiresystems.com. For your convenience the product Data Sheet is attached to this bulletin. Please note that these new modules are priced the same as the existing modules.

AI Module Compatibility

The new AI modules communicate using the SmartONE protocol and are compatible with the following Addressable Control Units:

Kidde-Fenwal Control Units		
ARIES	FenwalNET 6000	Micro SLX
ARIES NETLink	FenwalNET 8000	Micro MLX

The new AI modules can be inter-mixed with any SmartONE-based input modules or other devices on the same SLC loop. Existing AI modules can be easily replaced with the new part numbers as they have the same footprint and wiring connections. The new AI modules can be used in conjunction with Kidde, Fenwal or Chemetron-labeled Control Units.

AI Module Address Programming, Configuration Changes

The new AI modules are SmartONE-compatible devices that address and configure in a similar manner to the legacy AI modules. Device addresses can either be programmed through the SmartONE Handheld Programmer or through a direct connection to any current or legacy Addressable Control Unit.

Field settings for the new AI module can be entered through the Configuration Utility software or the User Interface programming of the applicable Addressable Control Unit.

The new AI modules can be identified by the green product label. The current AI modules have a white product label.

Product Availability – New Addressable Input Products

The transition to the new AI products will occur sometime over the next month, when the inventory of the existing Addressable Input modules has been depleted.

The legacy Addressable Input modules are limited to available inventory; once this has been depleted they will no longer be available.

Questions or Concerns:

If you have any questions or concerns, please contact Technical Support at (866) 287-2531 or email at Kidde_techsupport@fs.utc.com.

Addressable Contact Input Device

K-76-701

Effective: January 2018

FEATURES

- **Monitors N.O. or N.C./ Unpowered Contacts**
- **Full Digital Communications**
- **Remote LED Output**
- **Alarm Test from Control Unit Keypad**
- **UL Listed, ULC Listed, and FM Approved**
- **Class B, Style B Initiating Device Circuit**
- **Maximum 100 Ohm Loop Resistance (both conductors)**

DESCRIPTION

The SmartOne® Addressable Contact Input Device (AI) is an intelligent field device with its own microprocessor, memory and electronics necessary to interface N.O. or N.C. unpowered contacts to Kidde intelligent control units. All of the electronics are contained in a high-impact polymer case, creating a very small and durable device for installation. A silicone-free version is available for applications where silicone is not desired.

Two types of AI's are available: an AI/NC for interfacing to normally-closed devices and an AI/NO for interfacing to normally-open devices. The AI may be located up to 3,500 feet from the monitored device with #18 AWG wiring. An end-of-line-resistor is required for supervision of the wiring to the device.

FIELD PROGRAMMING

System address, owner location message and reporting type are programmable via the compatible control unit configuration software program. The system address is a 3-digit number that uniquely identifies each device. The owner location message is a 40-character, alpha numeric message that describes the location of the device. The reporting type is assigned to the AI depending on the functionality of the device being monitored.

SUPERVISION

The AI continuously monitors the integrity of the following:

- Continuity of supervised wiring
- Power/Communications circuit voltage
- Internal power supply
- Memory data
- Faulty entering of data into AI memory

STATUS LED

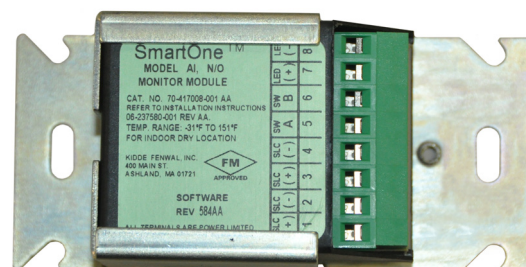
A remote status LED may be connected to the AI.

ALARM TEST

Any or all AIs can be tested by command from the compatible control unit. Results of the test may be printed.

ORDERING INFORMATION

Addressable Contact Input Device N.O	70-417008-001
Addressable Contact Input Device N.O, non-silicone	70-417018-001
Addressable Contact Input Device N.C.	70-417008-002
Package of 10 End-of-Line Resistors	70-411001-005



SPECIFICATIONS

IDC Wiring Style: Wired as NFPA 72 (2002 ed.) Class B, Style B

Input Voltage: 24 VDC nominal

Standby Current: 580 µA Max

Alarm Current: 580 µA Max

Max. Circuit Resistance: 100 Ohm (50 Ohm per conductor)

Operating Environment: -31 to 151°F (-35 to 66°C) at 0 to 95% RH

LED Pulse Modes:

Normal: 9 second interval

Trouble: LED is off

Alarm: 2 second interval

Acceptable Wire Size: 14, 16, 18 AWG

The AI can be mounted in a North American 2-1/2-in. (64 mm) deep, 1-gang box or standard 4-in. square box, 1-1/2-in. (38 mm) deep with cover.

COMPATIBLE CONTROL UNITS

Kidde	ARIES NETLink
Kidde	ARIES
Fenwal	FenwalNET 8000-ML
Fenwal	FenwalNET 6000
Chemetron	MICRO MLX
Chemetron	MICRO SLX

EXPORT INFORMATION (USA)

Jurisdiction: EAR

US ECCN: EAR99

This document contains technical data subject to the EAR.

This literature is provided for informational purposes only. KIDDE-FENWAL, INC. believes this data to be accurate, but it is published and presented without any guarantee or warranty whatsoever. KIDDE-FENWAL, INC. assumes no responsibility for the product's suitability for a particular application. The fire suppression system design, installation, maintenance, service and troubleshooting must be performed by trained, authorized Kidde Fire Systems distributors for the product to work correctly. If you need more information on this product, or if you have a particular problem or question, contact: KIDDE-FENWAL, INC., Ashland, MA 01721 USA, Telephone: (508) 881-2000.