SmartOne®
Addressable Signal Module

Kidde Fire Systems
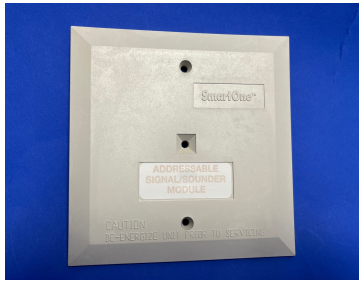
FEATURES

- *Full digital communications*
- *Addressable notification appliance circuit (NAC)*
- *Class A or Class B wiring on NAC*
- *Field-programmable for 24VDC notification appliances or 25 Vrms speakers*
- *Supervises power for notification appliances*
- *For use with Kidde® intelligent control units operating SmartOne® communications protocol* *
- *UL Listed*
- *FM Approved*
- *CSFM Approved*

* PEGAsys™, PEGAsys LV, FENWALNET™ 2000 and FENWALNET 2000 LT control units may require a firmware upgrade before ASMs can be installed.

DESCRIPTION

The SmartOne Addressable Signal Module (ASM), P/N 70-200200-003, is a notification appliance circuit that connects to the Signaling Line Circuit of a compatible control unit. The ASM is an intelligent field device that contains its own microprocessor, memory and the necessary electronics to provide either 24 VDC for conventional notification-appliances or 25 Vrms for speakers. Operation can be changed on-site using on-board switches and jumpers.

PROGRAMMING

Each ASM can be configured to support speakers or audible-visual notification appliances, and Class B or Class A operation. The module can also be programmed to support water flow, walk test, and drill modes. As with other SmartOne devices, addressing can be imple-mented from the SmartOne Hand-Held Programmer or from the con-trol unit keypad/menu. The ASM can also be alarm tested upon command from the control unit. Module faults are individually reported to compatible control units by module address, fault type, and fault-location message. A status LED is mounted on the unit.

SUPERVISION

The module provides continuous internal supervision of:
- Alarm contact position
- Communications with the control unit
- Internal power supply
- Connections to external power supply for notification appliances
- Memory status module supervision prevents switching audible or audio power into a shorted circuit.

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MAXIMUM LINE RESISTANCE (#12 AWG WIRE)

Load (amps)	Resistance (ohms)	Length (ft.)
0.2	20.0	12.0K
0.5	8.0	5.0K
1.0	4.0	2.5K
1.5	2.7	1.6K
2.0	2.0	1.2K

SPECIFICATIONS

Mounting:
- A 4-inch, 2-1/8-inch deep (for #18 AWG) or 4-11/16-inch, 2-1/8-inch deep (for #12 AWG) standard, square electrical box can be used. Wiring specifications are recommended as minimums for ease of wiring. See National Electrical Code (370).

Shipping Weight: 10.5oz (298g)
Current Draw: 500 µA in standby or alarm
Operating Voltage Range: 18.5 to 27.5 VDC
Output Circuit Rating:
- 2 A max. @ 24 VDC regulated
- 20 W max. @ 25.0 V$_{rms}$

⚡ **WARNING**

Output Circuit limited to 1.6A at operating temperature ≥ 113 ºF (45ºC)

Failure to adhere to this specification may result in limited output circuit performance: Notification Appliance(s) may not sound continuously.

Notification Appliance Circuit End Of Line Resistor:
- 4.7K ohms, 0.5 W

Notification Appliance Circuit Output
- 24 VDC, 2 A (max.), power limited, reverse polarity supervised

Audio Circuit Output
- 25 V$_{rms}$, 20 W (max), non-power limited, reverse polarity supervised

Power Supply Trouble Circuit End Of Line Resistor: 4.7K, 0.5 W
Operating Temperature Range: -13° F to 151° F, (-25° C to 66°C)
Operating Humidity Range: 0 to 95%, non-condensing

COMPATIBLE CONTROL UNITS

Fire Alarm Control Unit (FACU) Type	Current Product	Legacy Product
Single Loop	ARIES®-SLX	ARIES FenwalNET™ 6000 PEGAsys™ ** FenwalNET 2000 **
Multiple Loop	ARIES®-MLX	ARIES NETLink FenwalNET 8000-ML PEGAsys ** FenwalNET 2000 **

** FACUs running sotware revision 82.4 are compatibility-tested but not agency listed with the device(s) in this data sheet.

EXPORT INFORMATION (USA)
Jurisdiction: EAR
US ECCN: EAR99
This document contains technical data subject to the EAR.

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