

SmartOne® Remote Releasing Module (RRM)



K-76-238

Effective: May 2020

FEATURES

- **Supports Both Gaseous and Pre-Action/Deluge Sprinkler Systems**
- **Triple R Protection Against Inadvertent Extinguishing-System Activation**
- **Versatile Mounting Configurations**
- **Internal Communication and External Power Supervision**
- **Compatible with Kidde® intelligent control units**
- **UL Listed**
- **FM Approved**
- **CSFM Approved**

DESCRIPTION

The Remote Releasing Module (RRM) is a SmartOne® field device connected to the Signaling Line Circuit (SLC) of a Kidde intelligent control unit operating SmartOne communications protocol to provide the ability to remotely activate extinguishing-system control devices.

On a Kidde single-loop control unit, up to 16 RRM's can be configured for simultaneous group activation, with a maximum of 4 groups (64 RRM's per control unit). On a Kidde multi-loop control unit, up to 20 RRM's can be configured for simultaneous group activation, with a maximum of 7 groups (140 RRM's per control unit). RRM's within the same group activate at the same time; groups activate in consecutive order.

SUPERVISION

Release circuits are power-limited and supervised for short circuit by using an In-Line Releasing Device (P/N 06-220023-001). In the event of a ground fault, open, short or a relay contact failure, the device will transmit a trouble status to the compatible control unit.

PROGRAMMING

As with other SmartOne devices, addressing can be implemented from the hand-held programmer (P/N 70-600000-100) or from the compatible control unit keypad menu. A 24VDC power supply is required for the RRM to program with a hand-held programmer.

STATUS LED

A status LED is mounted on the unit and indicates the module's status.



INSTALLATION

The RRM can be mounted in the following ways:

P/N 70-600000-001 : Standard Mounting

- North American 4-11/16 in. electrical box with a double gang plaster ring (Rayco Model 841 or equivalent), 1/2 in. raised
- 4 in. square, 2-1/8 in. deep electrical box

P/N 70-600000-002 : In-Cabinet Mounting

- Any UL-864 Listed enclosure with no other electronics.

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

SPECIFICATIONS

CIRCUIT CHARACTERISTICS

Kidde Single-Loop Panel Activation:

- Up to 64 RRM's per panel (Activated Consecutively)
- Up to 4 Groups of 16 RRM's per group (RRM's in a group activate simultaneously, groups activate consecutively)

Kidde Multi-Loop Panel Activation:

- Up to 140 RRM's per panel (Activated Consecutively)
- Up to 7 Groups of 20 RRM's per group (RRM's in a group activate simultaneously, groups activate consecutively. RRM's in the same group can be on different SLC loops.)

Releasing Circuit Output Current:

- 2.4A Max @ 24.0 VDC

Operating Voltage:

- 24 VDC Nominal

Trouble Circuit Input

- 4.7K End of Line Resistor "Open" contact = normal condition

Power Consumption

- From Remote Power Supply:
 - Normal, Standby: 6.1 mA
 - Alarm: 45 mA
- From SLC:
 - Normal, Standby: 410 µA
 - Alarm: 410 µA

SHIPPING WEIGHT

- 10.5oz (298g)

OPERATING TEMPERATURE RANGE

- 32°F to 120°F, (0°C to 49°C), Indoor/Dry location use only

OPERATING HUMIDITY RANGE

- 93% ±2% RH at 90°F ±3°F (32°C ±2°C),

CONSTRUCTION

- High Impact Polymer Faceplate with a 16 gauge Aluminum Bracket

ACCEPTABLE WIRE SIZE

- Terminal connections support wiring from #18 AWG to #12 AWG. Wire sizes determine electrical box depth.

LED PULSE MODES

- Normal, Standby: Flash at 9-second repetition rate
- Output Active: On steady
- Trouble: Off

The following power supplies are compatible with Remote Releasing Modules:

Description	Manufacturer	Part Number
Multi-Zone Power Supply Assembly (used with P/N 77-297107-000 enclosure and cables)	Kidde	77-297106-000
24 VDC, 1A Auxiliary Power Output of Kidde Single-Loop Control Unit, Qty. 2 (See Note 1)	Kidde	-
24 VDC, 2A Auxiliary Power Output of Kidde Multi-Loop Control Unit, Qty. 1	Kidde	-
24 VDC, 3A Power Supply, red enclosure	Altronix®	AL 400ULXR
24 VDC, 3A Power Supply, grey enclosure	Altronix	AL 400ULX
24 VDC, 6A Power Supply, red enclosure	Altronix	AL 600ULXR
24 VDC, 6A Power Supply, grey enclosure	Altronix	AL 600ULX
24 VDC, 8A Power Supply, red enclosure	Altronix	AL 1024ULXR
24 VDC, 8A Power Supply, grey enclosure	Altronix	AL 1024ULX

Notes:

- Both auxiliary circuits may be wired together to obtain 2 A at 24 VDC.
- Altronix power supplies may be ordered through an authorized Altronix dealer. For a list of dealers, visit www.altronix.com or call (888) 258-7669.

ORDERING INFORMATION

Remote Releasing Module (With Standard Bracket and Front Cover Plate)	70-600000-001
Remote Releasing Module (With In-Cabinet Bracket and Mounting Hardware)	70-600000-002
In-Line Releasing Device (One Required For Each Releasing Circuit to be Supervised and Power Limited)	06-220023-001

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.

Kidde, SmartOne and ARIES are registered trademarks of Kidde-Fenwal, Inc., or its parents, subsidiaries or affiliates. Altronix is a registered trademark of Altronix Corp.