

# Scorpio™ Fire/Suppression Control Panel



A UTC Fire & Security Company

Effective: March 2007  
K-84-02

## FEATURES

- **Microprocessor Based**
- **Multiple Abort/Releasing Modes**
- **14 Status Indicating LEDs**
- **5 Diagnostic LEDs**
- **Programmable Alarm Relay**
- **Single or Dual Solenoid Release**
- **Programmable Delays**
- **Programmable Release Circuit Isolate**
- **Programmable Cross Zone Operation**
- **24-Hour Trouble Resound**
- **Supervised Abort, Manual Release and Supervisory Circuits**
- **Transient and Noise Protection**
- **Listings: UL, FM, ULC, MEA, CSFM**

## DESCRIPTION

The Kidde® SCORPIO™ is a low cost control panel that supervises and controls one fire suppression hazard. Microprocessor technology enhances reliability and field programmable versatility. The control unit is compatible with Kidde FM-200®, FE-13™, carbon dioxide, Industrial Dry Chemical, and Restaurant Wet Chemical suppression systems. It meets requirements of NFPA 72 and—additional to extensive listings—is approved for use in suppression systems covered by NFPA codes: 12, 12A, 17, 17A and 2001.

The control panel provides 14 indicating status LEDs and 5 diagnostic LEDs:

Indicating status LEDs are:

- AC power
- Zone 1 Alarm and Trouble
- Zone 2 Alarm and Trouble
- Alarm Silence
- Supervisory ON
- Supervisory Trouble
- System Trouble
- Manual release Alarm and Trouble
- Release output Trouble
- Abort Active and Trouble

Diagnostic LED indications are:

- AC Fault
- Ground Fault
- Battery Fault
- Signal circuit Open
- Signal circuit Short

Field programmable options include: multiple time delays, 3 abort modes, single or cross zone operation, release circuit isolation, and a second alarm relay programmable to operate on actuation of 2<sup>nd</sup> cross zone or agent release.



Programmable abort modes are:

- Mode 1: Timer hold at 10 seconds, count down upon abort release
- Mode 2: Timer reset to initial value, count down upon abort release
- Mode 3: Timer hold at 10 seconds if actuated before 2<sup>nd</sup> alarm, count down upon abort release (IRI)

The SCORPIO has two independent style “B” initiating circuits that can be programmed for single or cross zone application. The circuits support 15 Fenwal® 2-wire CPD/PSD type smoke detectors which can be intermixed with Detect-A-Fire® contact type, rate compensated thermal detectors. Also, style “B” abort, manual release and supervisory circuits are provided. All input circuits permit up to 50 ohms resistance, thus allowing extended wiring runs.

Abort, manual release and audible/visual signal can be front panel mounted with the P/N 84-232002-00X or P/N 84-232003-00X options (see ORDERING INFORMATION). The manual release switch incorporates a lift type guard to prevent inadvertent activation.



One style "Y" signal circuit is rated 0.5 Amps @ 24 Vdc. The Control Unit is capable of activating the following releasing devices:

- One or two 24 Vdc Solenoid Control Head P/N 890181
- One or two 24 Vdc Solenoid Control Head P/N 899175
- One or two 24 Vdc Solenoid Control Head P/N 48650001
- One CXV 24 Vdc Solenoid Control Head P/N 90-487100-001
- One XV 24 Vdc Solenoid Control Head P/N 87-120099-001
- One 24 Vdc Solenoid Control Head P/N B120099

The control panel 24 Vdc power supply—provided for either 120 or 240 Vac input—features electronic power limited overload protection and built-in battery charger. Optional panel mounted, 1.2 AH batteries (P/N 06-115915-020) provides 24 hours of standby followed by 5 minutes alarm operation.

See *ORDERING INFORMATION* for optional Canadian (ULC) version.

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## SPECIFICATIONS

<b>Input power</b>	120 or 240 Vac, 0.5 or 0.25 amp maximum
<b>Power Requirements</b>	35mA - standby 200mA - alarm
<b>Auxiliary Power</b>	0.25 amps @ 24 Vdc in alarm only
<b>Input Circuits</b>	Two style "B", 50 ohms, 10K EOL resistor
<b>Auxiliary Input Circuits</b>	One Supervisory, Manual Release and Abort, style "B", 10K EOL
<b>Output Circuit</b>	One style "Y", 0.5 amp @ 24 Vdc, 10K EOL
<b>Relay Outputs</b>	Two alarm, one trouble, form "C", rated 2 amp @ 24 Vdc. 2nd alarm relay programmable.
<b>Release Output</b>	Activate one or two P/Ns. 48650001, 899175 or 890181 or one of P/Ns 90-487100-001, 87-120099-001 or B120099.
<b>Isolation Switch</b>	Disconnects Release Output
<b>Time Delay to Discharge (detectors only)</b>	Field selectable: 0 to 60 seconds in 10-second increments
<b>Nominal dimensions:</b>	13.25 in. H x 11.0 in. W x 2.3 in. D

## ORDERING INFORMATION

Description	Part No.
Scorpio Control Panel, UL, 120 Vac Input	84-232000-102
Scorpio Control Panel, UL, 240 Vac Input	84-232000-104
Scorpio Control Panel, ULC, 120 Vac Input	84-232000-202
Scorpio Control Panel, ULC, 240 Vac Input	84-232000-204
Scorpio Control-Auxiliary Panel, 120 Vac, c/w factory mounted Front Plate P/N 84-232003-002	84-232002-001
Scorpio Control-Auxiliary Panel, 240 Vac, c/w factory mounted Front Plate P/N 84-232003-002	84-232002-002
Scorpio Control-Alarm Auxiliary Panel, 120 Vac, c/w factory mounted Front Plate P/N 84-232003-001	84-232002-003
Scorpio Control-Alarm Auxiliary Panel, 240 Vac, c/w factory mounted Front Plate P/N 84-232003-001	84-232002-004
Scorpio Alarm Auxiliary Front Plate w/ Manual Release and Abort Station and Cutout for Audio-Visual Device	840-232003-001
Scorpio Auxiliary Front Plate w/ Manual Release and Abort Station	84-232003-002
Lead Acid Battery, 12 Vdc, 1.2 AH (2 required)	06-115915-020
Accessory Kit: 50 - 10K EOL resistors	06-129520-001

This literature is provided for informational purposes only. KIDDE-FENWAL, INC. assumes no responsibility for the product's suitability for a particular application. The product must be properly applied 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. Telephone: (508) 881-2000.