Effective: May 2007

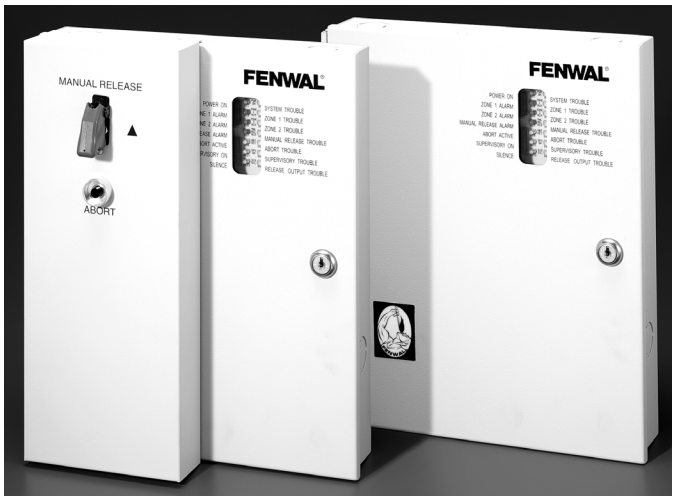
2320 Fire/Suppression Control Panel

FENWAL® Protection Systems
A UTC Fire & Security Company

F-30-051

FEATURES

- **Microprocessor Based**
- **Multiple Abort/Releasing Modes**
- **14 Status Indicating LEDs**
- **5 Diagnostic LEDs**
- **Programmable Alarm Relay**
- **Single or Dual Solenoid Release**
- **Initiator 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 2320 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 Fenwal FM-200® clean agent suppression systems. It meets requirements of NFPA 72 and–in addition 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 2nd 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 2nd alarm, count down upon abort release (IRI)

The 2320 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 P/N 30-232001-001 or P/N 30-232001-002 option (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 48650001
- One set of up to ten P/N 31-199932-004 Electro-explosive initiators
- One set of up to eight P/N 31-199932-012 Electro-explosive initiators
- One set of up to six P/N 93-191001-001 Electro-explosive initiators
- One CXV 24 Vdc Solenoid Control Head P/N 93-487100-001
- One XV 24 Vdc Solenoid Control Head P/N 87-120099-001

Note: Effective September 1996, P/N 31-199932-012 Initiator for Bottom Discharge Cylinders has been replaced by P/N 93-191001-001.

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) provide 24 hours of standby followed by five minutes alarm operation.

See ORDERING INFORMATION for optional Canadian (ULC) versions.

ORDERING INFORMATION

Description	Part Number
2320 Control Panel, UL, 120 Vac	30-232000-101
2320 Control Panel, UL, 240 Vac	30-232000-103
2320 Control Panel, ULC, 120 Vac	30-232000-201
2320 Control Panel, ULC, 240 Vac	30-232000-203
Front Panel Option w/o audiovisual cutout	30-232001-002
Front Panel Option w/audiovisual cutout	30-232001-001
2320 Control Panel, UL, 120 Vac c/w premounted 30-232001-002 option	30-232002-001
Battery, 12 Vdc, 1.2 Ah (2 required)	06-115915-020
Accessory Kit: 50-10K EOL resistors	06-129520-001

SPECIFICATIONS

Input Power:	120 or 240 Vac, or 0.25 Amp maximum
Power Requirements:	
Standby:	35 mA
Alarm:	200 mA
Auxiliary Power:	0.25 amps @ 24 Vdc in alarm only
Input Circuits:	Two style “B”, 50 ohms, 10K EOL
Auxiliary Input Circuits:	One Supervisory, Manual Release and Abort, style “B”, 10K EOL
Output Circuit:	One style “Y”, 0.5 Amp @ 24 Vdc, 10K EOL
Relay Outputs:	Two alarm, one trouble, form “C”, rated 2 Amp @ 24 Vdc. 2nd alarm relay programmable
Release Output:	
Solenoid Operation:	Activate one or two P/N 48650001 or 890181 or one of P/Ns 93-487100-001 or 87-120099-001
Initiator Output:	Activate up to six P/N 93-191001-001 or up to ten P/N 31-199932-004
Isolation Switch:	Disconnects Release Output
Time Delay to Discharge (detectors only):	Field selectable: 0 to 30 seconds in 10 second increments
Nominal Dimensions:	13-1/4 in. H x 11 in. W x 2-5/16 in. D

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.

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