

# FireLarm™ Model 3000 Control Unit

## DESCRIPTION

Federal Signal FireLarm 3000 fire alarm control unit is a full function control panel offering the features required for any small to mid-sized fire system application. The FireLarm 3000 features four style B initiating zones with an additional fifth normally open supervisory zone and two style Y indicating circuits. The digital display keypad allows for easy system operation and identification of system alarm and trouble conditions. The FireLarm 3000 provides a standard complement of features with optional features easily field PROM programmable. An optional plug-in digital communicator is available for Central Station operation. The unit is housed in a compact steel cabinet with an attractive red textured finish and removable door.

## APPLICATION

The FireLarm 3000 fire alarm control unit is well suited for use in commercial properties, schools, health care facilities, retail buildings, hotels/motels and any small to mid-sized building. The wide range of standard features and options make the FireLarm 3000 panel the logical choice for buildings where a full feature, four-zone, processor based system is required.

## FEATURES

The FireLarm 3000 panel is supplied as a fully programmed control unit. The unit provides 4 two-wire smoke compatible initiating circuits, a "5th" N/O supervisory circuit, 2 alarm indicating circuits, alarm and trouble relay contacts and 2.5A 24VDC of power for alarm signals and powered devices. Advanced system features are easily added to the unit with an optional, portable PROM programmer.

The operator's digital display keypad uses LED's, a numeric display and a sounder to activate and report AC on, system status, test, silence, reset, zone/device disable and alarm/trouble recall. An optional remote annunciator indicates system trouble and displays alarm and trouble conditions by zone. The optional remote interface provides alarm and trouble outputs per zone to operate lamp-type annunciators or relays. The Test mode permits single person panel checkout by sounding two short blasts on the alarm signals for activation and one blast for automatic reset. The fire drill feature activates the alarm signal circuits without operating the optional communicators.



**FireLarm 3000 CONTROL UNIT**

The compact cabinet has multiple wiring knockouts, an attractive textured red finish, and a removable door for easy installation. The cabinet has provisions for mounting a trouble signal silence key switch to permit signal silencing without opening the cabinet door.

An optional plug-in digital communicator for Central Station operation provides two phone line outputs plus line fault monitoring and automatic daily test signal and can be added to the system at any time.

The FireLarm 3000 fire alarm control unit carries the following listings/approvals:

<u>Agency</u>	<u>Reference Number</u>
Underwriter's Laboratories	S6521 S6477
California State Fire Marshall	
FireLarm 3000 Control Panel	7165-1517:117
3KANC Remote Annunciator	7120-1517:118

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## STANDARD FEATURES

- Operator's digital display keypad;  
LED's - Alarm, Zone trouble, System trouble, Zone disabled and AC on.  
Features - Test, Silence, Reset, Disable/enable a zone, Disable/enable a device (signals, relays, transmitters), Alarm (recall the current zones in alarm or the last zone in alarm), Zone trouble (recall the zones in trouble), System trouble (recall system troubles eg. AC failure, low battery, etc.), Zone disabled (recall zones previously disabled).
- Four Style B initiating circuits (compatible with Federal approved two-wire smoke detectors)
- Fifth normally open supervisory zone.
- SPDT alarm and trouble contacts.
- Power limited output circuits (except four wire smoke detector power).
- Test mode (single person system testing).
- Fire drill function.
- Low/No battery supervision.
- Alarm history (displays last zone in alarm).
- PROM supervision.
- Ground fault detection.
- Removable cabinet door.
- UL Listed (NFPA 71, 72A, B & C)

## PROGRAMMABLE FEATURES\*

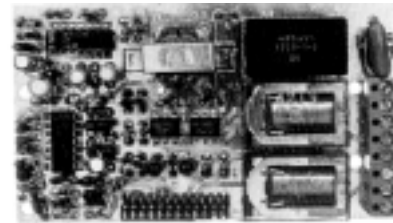
- Alarm verification.
- Pre-signal.
- Smoke detector reset cycle.
- Automatic daily reminder for silenced, non-cleared trouble conditions.
- Disable bells, relays or transmitters for testing.
- Resound when trouble clears.

## OPTIONAL FEATURES

- Plug-in digital communicator.
- Line reversal module.
- Plug-in polarity-reversal module/municipal box connect.
- Remote annunciator.
- Remote Interface (outputs per zone) module.
- Flush mounting kit.



**OPERATOR'S DIGITAL DISPLAY KEYPAD**



**OPTIONAL MODEL 3KDD  
DUAL-LINE DIGITAL COMMUNICATOR**

*PHOTO OF REMOTE ANNUNCIATOR*

**OPTIONAL MODEL 3KANC  
REMOTE ANNUNCIATOR**

\*Requires Optional PROM Programmer.

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## ORDERING INFORMATION

Model Number	Description	Model Number	Description
3450 115	FireLarm 3000 Control Panel	3KFMK	Flush Mounting Kit
3KANC	Remote Annunciator	7070 034Y	6AH Battery (12VDC)
3KDD	Dual-Line Digital Communicator	7070 034P	6.5AH Battery (12VDC)
3KPRM	Polarity-Reversal Module	3KHNS	Dual Battery Harness
3KLRM	Line-Reversal Module	3KBJ	Battery Jumper
3KRIN	Remote Interface	PRO410M	PROM Programmer
3KRKIT	End-of-line Resistor Kit c/o: 4 - EOL2.7K Resistors (initiating ckts) 2 - EOL10K Resistors (indicating ckts)	DD496	Preprogrammed PROM
		3KINST	Operating and Installation Manual

## SPECIFICATIONS

<p><b>Operating Temperature:</b> 0-49 degrees C</p> <p><b>Input Power:</b> 120VAC 60Hz; 135W max.</p> <p><b>Initiating Zones:</b> 24VDC nominal; Standby - 11ma max. including EOL, 3ma available Alarm - limited to 35ma Number of smoke detectors - 30 EOL resistor - 2.7k, 1/2w Wiring resistance - 100 ohms max. Alarm threshold impedance - 1k max.</p> <p><b>Supervisory Zone:</b> 24VDC, 7ma max.</p> <p><b>Alarm Indicating Circuits:</b> 2 supervised full wave rectified circuits, 24Vfw, 2A max. (see combined alarm currents) EOL resistor - 10k</p> <p><b>Auxiliary Alarm Relay:</b> SPDT isolated contacts, 24VDC, 2A resistive</p> <p><b>Trouble Relay:</b> SPDT isolated contacts, 24VDC, 2A resistive</p> <p><b>FWR Power Output:</b> Continuous 24Vfw full- wave rectified, 3ma min. to 500ma max. (see combined currents)</p>	<p><b>4-Wire Smoke Detector Power:</b> 24VDC regulated, 250ma max. (see combined currents)</p> <p><b>Remote Power:</b> 12VDC, 100ma max. (2 3KANC's) (subtract from combined current,standby)</p> <p><b>Combined Current Standby:</b> 250ma max. (4-wire smoke power, remote power, FWR output in standby; includes 1 3KDD or 3KPRM)</p> <p><b>Alarm:</b> 2.5A max. (indicating circuits, FWR output)</p> <p><b>Low Battery Signal:</b> 21.0 vDC</p> <p><b>Remote Annunciators:</b> 2 max. - current (each), 30ma excluding sounder, 50ma with sounder</p> <p><b>Fuses:</b> Battery 5A, 1AG (F1) Smoke Detector Power 1/2A, 1AG (F2) Indicating Circuit 1 3A, 1AG (F4) Indicating Circuit 2 3A, 1AG (F5)</p> <p><b>Dimensions:</b> 17.8"H x 14.4"W x 5.5"D</p> <p><b>Shipping Weight:</b> 20lbs. (approximate)</p>
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**FireLarm 3000 Cabinet Dimensions**

