XLS3000

Intelligent Addressable Fire Alarm Control Panel

The Honeywell XLS3000 is an intelligent fire alarm control panel designed for medium– to large–scale facilities.

The Honeywell XLS3000 is an intelligent fire alarm control panel (FACP) designed for medium- to large-scale facilities. Fire emergency detection and evacuation are extremely critical to life safety, and the XLS3000 is ideally suited for these applications. The XLS3000 is ideal for virtually any application because it features a modular design that is configured per project requirements. With one to ten Signaling Line Circuits (SLCs), the XLS3000 supports up to 3,180 intelligent addressable devices.

Information is critical to fire evacuation personnel, and the XLS3000's large 640-character Liquid Crystal Display (LCD) presents vital information to operators concerning a fire situation, fire progression, and evacuation details.

A host of other options are available, including single- or multi-channel voice; firefighter's telephone; LED, LCD, or PC-based graphic annunciators; networking; advanced detection products for challenging environments; wireless fire protection; and many additional options.

When combined with a Honeywell Enterprise Buildings Integrator (EBI™), the XLS3000 becomes part of an owner-operated proprietary monitoring system, allowing the connection of standalone or networked panels.

XLS3000 Intelligent Addressable Fire Alarm Control Panels (Second image shows a system with the XLS-DVC audio option)

FEATURES AND BENEFITS

- Certified for seismic applications when used with the appropriate seismic mounting kit.
- Complies with UL 2572 Mass Notification Systems (XLS3000 version 20 or higher).
- One to ten isolated intelligent Signaling Line Circuits (SLC) Class A, B, or X.
- Wireless fire protection using SWIFT® Smart Wireless Integrated Fire Technology. See 74-5175.
- Up to 159 detectors and 159 modules per SLC; 318 devices per loop/3,180 per FACP or network node.
- Detectors can be any mix of photo, thermal, or multi-sensor; wireless detectors are available for use with the XLS-WSG(CDN).
- Modules include addressable pull stations, normally open contact devices, two-wire smoke detectors, notification, or relay; wireless modules are available for use with the XLS-WSG(CDN).
- Large 16 line, 640 character LCD backlit display or use display-less as a network node.

- Network options:
  - High-speed network for up to 200 nodes (XLS3000, XLS140-2, XLS140, XLS120(C), XLS-NCA/-NCA2 Network Annunciator, or XLS-DVC-EM, and Honeywell Enterprise Buildings Integrator [EBI]).
  - Standard network or up to 103 nodes (XLS3000, XLS140-2, XLS140, XLS120(C), XLS-NCA/-NCA2 Network Annunciator, or XLS-DVC-EM, and Honeywell Enterprise Buildings Integrator [EBI]). Up to 54 nodes when XLS-DVC-EM is used in network paging.
- Built-in Alarm, Trouble, Security, and Supervisory relays.
- VeriFire® Tools online/offline program option.
- Backwards compatible with FlashScan® and CLIP SLC devices.
- With built-in Degraded Mode operation, the system is capable of general alarm if a fire alarm condition is present even if the central processing unit (CPU) fails.

- 4,000 event history file in nonvolatile memory, plus a separate 1,000-event alarm-only file.
- Alarm Verification selection per point, with automatic counter.
- Autoprogramming, walk test, positive alarm sequence, and time scheduling.
- Multiple central station communication options:
  - Standard UDACT
  - Internet
  - Internet/GSM
- FM6320 approved Gas Detection System with TC809C1004 module and any FM listed gas detector.
- EIA-232 printer port; EIA-485 annunciator port.

Honeywell

DESCRIPTION

SIGNALING LINE CIRCUITS

The Honeywell XLS3000 Intelligent Addressable Fire Alarm System supports up to ten isolated intelligent signaling line circuits with Class A, B, or X. Each of the 10 circuits can have up to 159 detectors (any mix of photo, laser photo, thermal, or multi-sensor) and 159 modules (Addressable pull stations, normally open contact devices, two-wire smoke detectors, notification, or relay) with a total of 318 device per loop/3,180 per FACP or network node. Actual circuit loading depends on SLC communication protocol.

Weekly Occupancy Schedules allow changing sensor sensitivity by time of day, and day of week. An optional 2,040 point digital alarm communicator transmitter (DACT) is available for use with central monitoring stations. Annunciator support, including custom graphics, is provided via an EIA-485 annunciator port. An EIA-232 printer port is also provided. The history file has a 4,000 event capacity in nonvolatile memory, plus a separate 1,000 event alarm-only file. Advanced history filters allow sorting by event, time, date, or address. Alarm verification selection can be done per point, with automatic counter. Autoprogramming and Walk test reports are provided. The panel includes positive alarm sequence (PAS) Presignal functionality. Timer options include Silence Inhibit and Auto Silence.

Field programmability, with check and compare, is provided on a PC with the VeriFire Tools program. Up to 1,000 powerful Boolean logic equations can be used. Non-alarm points are provided for lower priority functions. Remote ACK/Signal Silence/System reset/Drill can be done via monitor modules. The XLS3000 supports the SCS Series smoke control system in both HVAC and FSCS modes.

DISPLAY

The XLS3000 display is a backlit LCD with 640-character display and a program keypad. The display allows up to nine users, each with a password and selectable access levels. The display has 11 LED indicators: Power, Supervisory, Point Disabled, Fire Alarm, System Trouble, CPU Failure, Pre-Alarm, Other Event, Controls Active, Security, and Signals Silenced. There are also five membrane switch controls: Acknowledge, Signal Silence, Drill, System Reset, and Lamp Test.

INDUSTRY LEADING DETECTOR DESIGNS

- Addressable detectors available for photo, heat, CO, IR, and combinations
- Color kits available for aesthetic use
- Single-ended beam smoke detectors
- Wireless detectors for use with SWIFT Wireless Gateway   r

FLASHSCAN®

At the heart of the XLS3000 is a set of detection devices and device protocol — FlashScan. FlashScan is an all-digital protocol that gives superior precision and high noise immunity.

As well as giving quick identification of an active input device, this protocol can also activate many output devices in a fraction of the time required by competitive protocols. This high speed also allows

XLS3000 Sample System Options
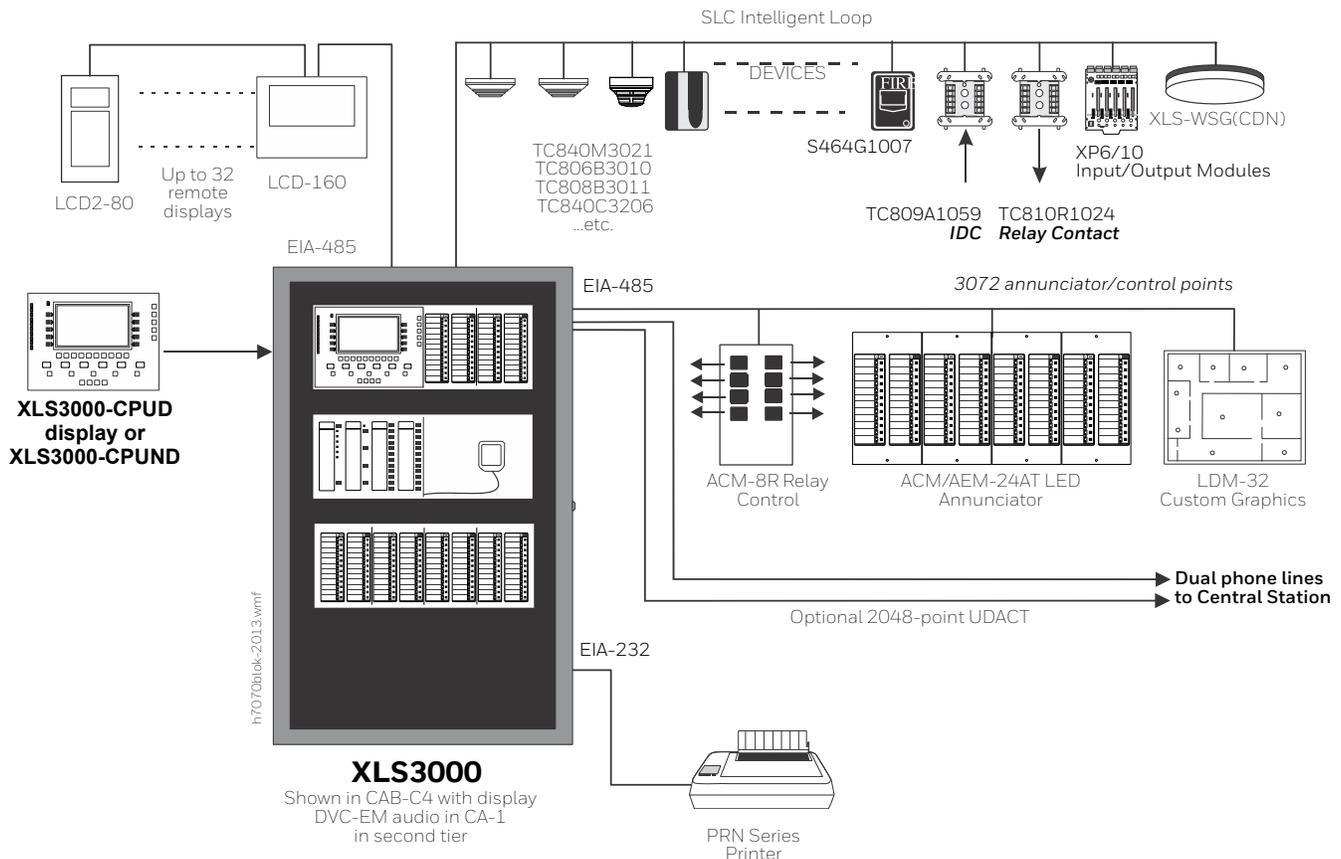
Note: XLS3000-CPU firmware version 14.0 (and higher) can support LCD-160 on the RDP port, or LCD2-80 in terminal mode, but not both at the same time.

the XLS3000 to have the largest device per loop capacity in the industry — 318 points — yet every input and output device is sampled in less than two seconds. Up to 159 outputs can be activated in less than 5 seconds. The microprocessor-based FlashScan detectors have bicolor LEDs that can be coded to provide diagnostic information, such as device address during Walk Test.

The multicolor LEDs blink the device address during a Walk Test. FlashScan operates with a fully digital, high-precision protocol. The multi-detector algorithm involves nearby detectors in the alarm decision, and the FlashScan device also uses drift compensation.

The FlashScan protocol incorporates nine levels of pre-alarm XLS intelligent sensing, each of which can be manually adjusted. Several programmable devices are available:

- **Photo –** 0.5 to 2.35%/foot obscuration.
- **High-Sensitivity Photoelectric (VIEW®) –** Open Air Protection (0.5% - 2.0%/ft. obscuration), Special Applications (0.02%- 0.5%/ft. obscuration**)**
- **Multi-Criteria Detector** – Open Air Protection (2.52-3.89%/ft. obscuration), Special Applications (1.13-2.52%/ft. obscuration)

FlashScan has a self-optimizing pre-alarm, automatic detector sensitivity testing, and two levels of maintenance alert. It also provides programmable activation of sounder/relay bases during alarm or pre-alarm. The Read Status displays the level of detector cleanliness.

INTELLIGENT SENSING

Intelligent sensing is a set of software algorithms that provide the XLS3000 with industry-leading smoke detection capability. These complex algorithms require many calculations on each reading of each detector, and are made possible by the very high-speed microcomputer used by the XLS3000.

Drift Compensation and Smoothing. Drift compensation allows the detector to retain its original ability to detect actual smoke, and resist false alarms, even as dirt accumulates. It reduces maintenance requirements by allowing the system to automatically perform the periodic sensitivity measurements required by NFPA 72. Smoothing filters are also provided by software to remove transient noise signals, usually caused by electrical interference.

Maintenance Warnings. When the drift compensation performed for a detector reaches a certain level, the performance of the detector may be compromised, and special warnings are given. There are three warning levels: (1) Low Chamber value; (2) Maintenance Alert, indicative of dust accumulation that is near but below the allowed limit; (3) Maintenance Urgent, indicative of dust accumulation above the allowed limit.

Sensitivity Adjust. Nine sensitivity levels are provided for alarm detection. These levels can be set manually, or can change automatically between day and night. Nine levels of pre-alarm sensitivity can also be selected, based on predetermined levels of alarm. Pre-alarm operation can be latching or self-restoring, and can be used to activate special control functions.

Self-Optimizing Pre-Alarm. Each detector may be set for "Self-Optimizing" pre-alarm. In this special mode, the detector "learns" its normal environment, measuring the peak analog readings over a long period of time, and setting the pre-alarm level just above these normal peaks.

Cooperating Multi-Detector Sensing. A patented feature of intelligent sensing is the ability of a smoke sensor to consider readings from nearby sensors in making alarm or pre-alarm decisions. Without statistical sacrifice in the ability to resist false alarms, it allows a sensor to increase its sensitivity to actual smoke by a factor of almost two to one.

Network Diagram

XLS•NET Block Diagram
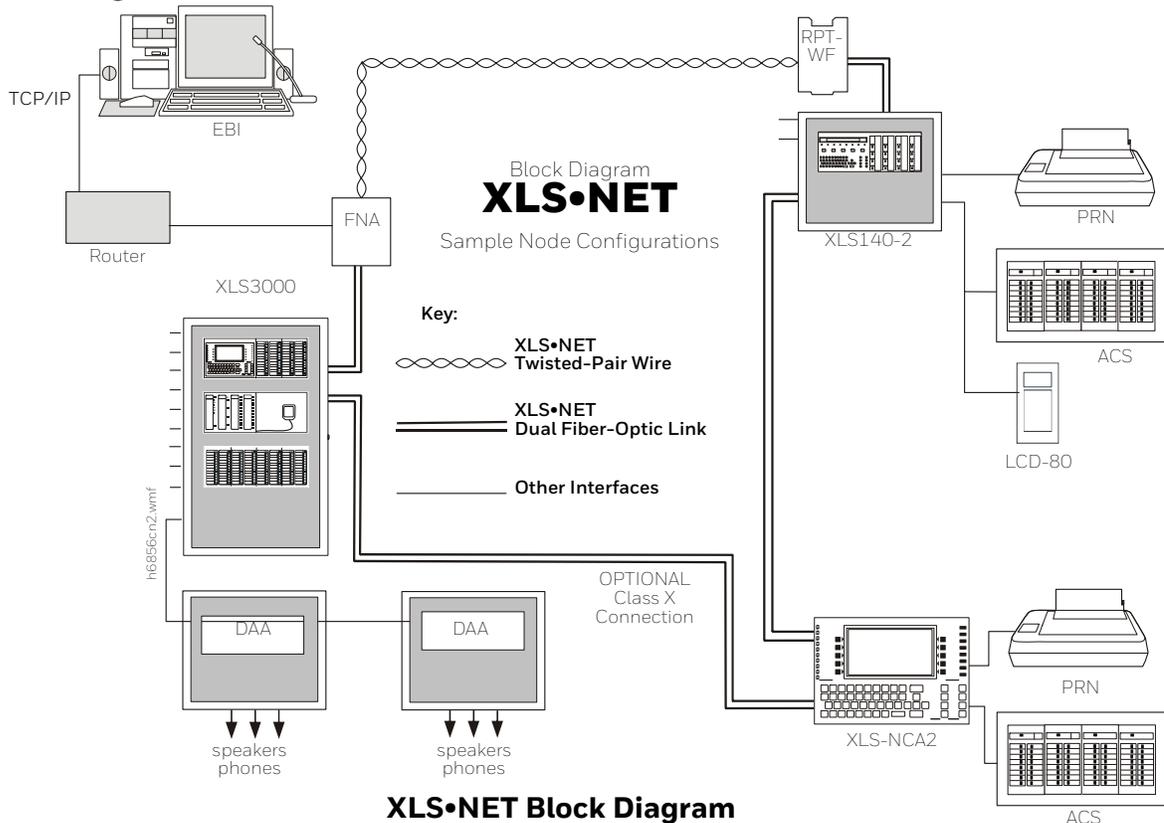
FIELD PROGRAMMING OPTIONS

Autoprogram is a time saving feature. The XLS3000 "learns" what devices are physically connected and automatically load them in the program with default values for all parameters. Requiring less than one minute to run, this routine allows the user to have almost immediate fire protection in a new installation, even if only a portion of the detectors are installed.

VeriFire® **Tools** is an offline programming and test utility that can greatly reduce installation programming time, and increase confidence in the site-specific software. It is Windows® based and provides technologically advanced capabilities to aid the installer. The installer may create the entire program for the XLS3000 in the comfort of the office, test it, store a backup file, then bring it to the site and download from a laptop into the panel.

Releasing Service. The system will release on any of ten independent hazards. There are three options of sophisticated cross-zone sensing. There is a delay timer and adjustable discharge timers, and there are four options for Abort.

Emergency Voice and Firefighter's Telephone. The XLS3000 has digital message generation, hard-wired voice control options, and a Firefighter's telephone option. The voice message is powered by high-efficiency amplifiers (35, 50 and 75 watt DAA2/DAX Series, or 100 and 120 watt DS Series). There is an optional backup tone generator and amplifier available. For the Emergency Voice feature, the newly introduced Digital Voice Command provides eight channels of one-way alarm broadcast and five channels of two-way communications with remote fire telephones. *See 74-4033.*

XLS3000-CPU. The control panel XLS3000-CPU is contained on one printed circuit board: the central processing unit. The XLS3000-CPU can be purchased with or without keypad and display; connections are identical on both versions. (See Main System Components for Canadian and non-English versions.)

PRODUCT LINE INFORMATION

CONFIGURATION GUIDELINES

Stand-alone and network systems require a main display. On single-FACP systems (one XLS3000), the display option is the XLS3000-CPUD. On network systems (two or more networked fire panel nodes), at least one XLS-NCA2/-C is required. Options listed as follows.

MAIN SYSTEM COMPONENTS

XLS3000-CPUD: XLS3000 with display. Includes CPU, 640 character display with keypad. Order XLS3000-CPUDC for ULC applications. Non-English versions are available: XLS3000-CPUD-FR (French), XLS3000-CPUD-PO (Portuguese), XLS3000-CPUD-RU (Russian), XLS3000-CPUD-SC (Standard Chinese), XLS3000-CPUD-SP (Spanish).

XLS3000-CPUND: XLS3000 without display. Includes CPU only.

AMPS-24: Main power supply and battery charger for the XLS3000. One required for each XLS3000 CPU used in 110/120 VAC applications. Charges 25 to 200 AH batteries. Primary input power: 110/120 VAC, 50/60 Hz, 4.5 A (maximum). Mounts in the bottom left hand section (battery row) of a XLS-CAB-4 enclosure. *See 85-3057.*

AMPS-24E: Main power supply and battery charger for the XLS3000. One required for each XLS3000 CPU used in 240 VAC applications. Charges 25 to 200 AH batteries. Primary input power: 240 VAC, 50/60 Hz, 2.25 A. Mounts in the bottom left hand section (battery row) of a XLS-CAB-4 enclosure. *See 85-3057.*

LCM-320: Loop Control Module, CLIP/FlashScan Protocol. Provides one CLIP/FlashScan SLC. XLS3000 supports up to five LCM-320s and five LEM-320 expanders for a total of ten SLCs. *See 85-3056.*

LEM-320: Loop Expander Module, CLIP/FlashScan Protocol. Expands an LCM-320. *See 85-3056.*

NETWORKING OPTIONS

XLS-NCA2/-C: Network Control Annunciator. One required per XLS-NET. Provides annunciation and control of all points on XLS-NET. Order XLS-NCA2-C for ULC applications. Non-English versions are available: XLS-NCA-2-FR (French), XLS-NCA-2-PO (Portuguese), XLS-NCA-2-RU (Russian), XLS-NCA-2-SC (Standard Chinese), XLS-NCA-2-SP (Spanish). *See 74-4045.*

NCM-W, NCM-F: Network Communications Modules. Wire and multi-mode fiber versions available. One required for each network node (XLS3000, XLS140, XLS140-2, XLS-DVC-EM, BACNET GATEWAY, Q7055C1034) on XLS-NET. Mounts in a standard chassis position or on a BMP-1 plate. *See 85-3007.*

XLS-NCM-EBI-W: Network Communication Module, Wire. Used in applications where the Q7055C1034 (Fire Network adapter) is mounted remotely next to an EBI server. The XLS-NCM-EBI-W mounts inside the EBI server (in an PCI slot) and communicates with the Q7055C1034. *See 85-3007.*

XLS-NCM-EBI-F: Network Communication Module, Multi-Mode Fiber. Used in applications where the Q7055C1034 (Fire Network adapter) is mounted remotely next to an EBI server. The XLS-NCM-EBI-F mounts inside the EBI server (in an PCI slot) and communicates with the Q7055C1034. *See 85-3007.*

HS-NCM-W(-2), HS-NCM-MF, HS-NCM-SF, HS-NCM-WMF(-2), HS-NCM-WSF(-2), HS-NCM-MFSF: High-speed Network Communications Modules that can connect to two nodes. Wire, single-mode fiber, multi-mode fiber, and media conversion models are available. *See 74-4082.*

RPT-W, RPT-F, RPT-WF: Repeater board with wire connection (RPT-W), multi-mode fiber connection (RPT-F), or allowing a change in media type between wire and fiber (RPT-WF). Not used with high-speed networks. *See 85-3007.*

Q7055C1034: Fire Network adapter. Used to connect XLS-NET or a standalone XLS3000 to Honeywell EBI. Requires one NCM-W/F or one XLS-NCM-EBI-W/F. *See 74-4017.*

BACNET-GW-3: BACnet interface for the XLS3000 or XLS-NET. Allows the XLS3000 to be connected to any BACnet capable application (subject to local AHJ approval). *See 85-3067.*

XLS-GW-EM-3: XLS•NET Gateway, embedded. *See 74-5084.*

HWS-3: Honeywell Web Server. *See 74-5171.*

XLS-LEDSIGN-GW: UL-listed sign gateway. Interfaces with classic and high-speed XLS-NET networks through the XLS•NET Gateway. *See 74-5148.*

OAX2-24V: UL-listed LED sign, used with XLS-LEDSIGN-GW. *See 74-5148.*

AUXILIARY POWER SUPPLIES AND BATTERIES

EOL-CR/CW: End of line relay plate. Required for certain Canadian Applications. *See 85-3062.*

APS2-6R: Auxiliary power supply. Provides two 24 VDC circuits, each rated for 3.0 A in alarm and 2.0 A continuous. Commonly used for the operation of peripheral audio/visual devices or any other application requiring 24VDC. *See 85-3050.*

ACPS-610: 6.0 A or 10.0 A addressable charging power supply. *See 85-3109.*

HPF24S6: 24 VDC NAC Remote Power Supply, 6A. Provides built-in NAC synchronization. 120 VAC only. UL LISTED.

HPF24S6C: Same as HPF24S6, but ULC LISTED.

HPF24S6E: Same as HPF24S6, but 240 VAC.

HPF24S8: 24 VDC NAC Remote Power Supply, 8A. Provides built-in NAC synchronization. 120 VAC only. UL LISTED.

HPF24S8C: Same as HPF24S8, but ULC LISTED.

HPR24S8E: Same as HPF24S8, but 240 VAC.

BAT Series: Batteries, 12V, Sealed Lead-Acid. AMPS-24 is compatible with 7 AH to 200 AH batteries. *See 85-3072.*

AUDIO OPTIONS

See "Enclosures, Chassis, and Dress Plates" on page 7 for mounting hardware.

XLS-DVC-EM Digital Audio System: XLS-DVC Digital Voice System. Networkable or standalone with a XLS3000. *See 74-4033.*

DVC-RPU: Digital Voice Command Remote Paging Unit for use with DVC-EM. Includes the keypad/display. *See 74-5170.*

DS-DB: Digital Series Distribution Board, provides bulk amplification capabilities to the XLS-DVC-EM while retaining digital audio distribution capabilities. Can be configured with up to four DS-AMPs, supplying high-level risers spread throughout an installation. *See 74-5139.*

DS-AMP/E: 125W, 25 VRMS, or 100W, 70VRMS. 70VRMS requires DS-XF70V step-up transformer. Digital Series Amplifier, part of the DS-DB system. *See 74-5141.*

DS-RFM, DS-FM, DS-SFM: Fiber conversion modules for XLS-DVC-EM, DS-DB distribution board, and DAA2/DAX Series amplifiers. *See 74-5078.*

DAA2 Series, DAX Series: XLS-DVC Digital Audio Amplifiers. Used with the XLS-DVC-EM digital voice system, these amplifiers communicate via the digital audio look to provide 8 channels of audio messaging and 5 channels of firefighter's telephone communication over a single twisted pair of wire or fiber pair. *See 74-5137, 74-5138, 74-4032 and 85-3121.*

AA-30, AA-100, AA-120: Traditional Audio Amplifiers. Amplifies a low level audio signal to high level audio at 30, 100 or 120 Watts. Used with the XLS-DVC-EM when the DVC-AO Analog Audio Option is used. *See 85-3044.*

RM-1: Remote paging microphone series. *See 85-3053.*

AFAWS Series: Firefighter's remote telephone enclosure. *See 85-3052.*

ACT-2: Audio Coupling Transformer. *See 85-3065.*

DAA Series Digital Audio Amplifiers: Legacy DAA Series amplifiers are compatible with XLS-DVC systems running SR4.0. For specific information on DAA-50 series amplifiers, refer to 74-4032. For information on DAA-7525 Series, refer to 85-3121.

PRINTERS, ACS DEVICES AND PERIPHERALS

PRN-7: 80-column printer. *See 74-5186.*

DPI-232: Direct Panel Interface. Specialized modem for extending EIA-232 serial data links to remotely located control panels and/or peripherals. Mounts in a standard chassis position. *See 85-3006.*

ACM-24AT: ACS annunciator – provides 24 LEDS with control buttons for annunciation and control of points. Can be expanded up to 96 points with AEM-24AT expanders. Active/Alarm LEDs can be programmed by point to be red, green or yellow; the Trouble LED is always yellow. Mounts on a DP-DISP or ADP-4B. *See 85-3004.*

AEM-24AT: Same LED and switch capabilities as ACM-24AT; expands the ACM-24AT to 48, 72, or 96 points (24 points per AEM-24AT). Mounts on a DP-DISP or ADP-4B. *See 85-3004.*

ACM-48A: ACS annunciator – provides 48 programmable LEDS for annunciation of points. Can be expanded up to 96 points with an AEM-48A expander. Active/Alarm LEDs can be programmed by point to be red, green or yellow; the Trouble LED is always yellow. Mounts on a DP-DISP or ADP-4B. *See 85-3004.*

AEM-48A: Same LED capabilities as ACM-48A; expands the ACM-48A to 96 points. Mounts on a DP-DISP or ADP-4B. *See 85-3004.*

ACM-8R: ACS Relay Module. Used to provide up to 8 remote form C contacts. Can be located up to 6,000 ft (1828.8 m) from the panel. *See 85-3046.*

LCD-160: Remote Annunciator. Mimics the XLS3000 Display. Mounts in an XLS-ABS-2D(R), XLS-ABS-4D(R), XLS-ABF-2B, XLS-ABF-4B enclosure, or a DP-DISP, or ADP-4B dress plate. Order LCD-160C for ULC applications. *See 85-3058.*

LCD2-80: Terminal and ACS mode. 80-character, backlit LCD display. Mounts up to 6,000 ft. (1828.8 m) from panel. Up to 32 per FACP. *See LCD2-80 (74-5091).*

SCS Series: Smoke control station. Used for UL listed smoke control applications. *See 85-3048.*

LDM-32: Lamp Driver module. Used to drive custom graphic annunciators. Mounts in a standard chassis position or inside a graphic annunciator. *See 85-3042.*

COMMUNICATORS (DACTS) AND TRANSMITTERS

UDACT-2: Universal Digital Alarm Communicator Transmitter, 636 channel. *See 74-5143.*

411 Series: 411 Series Slave Digital Alarm Communicator Transmitters. *See 85-3063.*

411 UDAC: 411UDAC Standalone Digital Alarm Communicator/Transmitter. Features remote upload and download capabilities. *See 85-3064.*

TM-4 Transmitter: Transmitter Module used for municipal box trip. Includes three reverse-polarity circuits and one municipal box circuit. Mounts in a standard chassis position. *See 85-3005.*

COMPATIBLE INTELLIGENT DEVICES

XLS-WSG(CDN) Wireless SWIFT Gateway: Addressable gateway supports wireless SLC devices. Order XLS-WSGCDN for ULC applications. *See 74-5175.*

TC840C3206/-IV: FlashScan, Addressable intelligent multi-criteria smoke sensors, photo, carbon monoxide, fixed temperature heat detector and infra-red (IR). ULC: TC840C3206CDN/-IV.

TC806C3022: FlashScan, Combined photoelectric and carbon monoxide sensor. ULC: TC806C3022CDN.

TC806C3011: FlashScan, Addressable carbon monoxide sensor. ULC: TC806C3011CDN.

TC808B3011: White, low-profile intelligent 135°F fixed thermal sensor, FlashScan only. Must be mounted to one of the bases listed below. ULC: TC808B3011CDN.

TC808B3011-IV: Ivory, low-profile intelligent 135°F fixed thermal sensor, FlashScan and CLIP. Must be mounted to one of the bases listed below. ULC: TC808B3011CDN-IV.

TC808B3012: White, low-profile intelligent rate-of-rise thermal sensor, FlashScan only. Must be mounted to one of the bases listed below. ULC: TC808B3012CDN.

TC808B3012-IV: Ivory, low-profile intelligent rate-of-rise fixed thermal sensor, FlashScan and CLIP. Must be mounted to one of the bases listed below. ULC: TC808B3012CDN-IV.

TC808B3203: High temperature sensor with 190°F (87.8°C) fixed temperature alarm. FlashScan mode only. White. Must be mounted to one of the bases listed below. ULC: TC808B3203CDN.

TC808B3203-IV: Ivory, low-profile intelligent 190°F thermal sensor, FlashScan and CLIP. Must be mounted to one of the bases listed below. ULC: TC808B3203CDN-IV

TC840M3021/-IV: Addressable intelligent multi-criteria photoelectric, thermal and IR sensors. ULC: TC840M3021CDN, TC840M3021CDN-IV.

TC847XR1001: Addressable intelligent single-ended beam smoke detector. . UL/ULC-listed.

TC806B3010: White, low-profile intelligent photoelectric sensor, FlashScan only. ULC: TC808B3010CDN.

TC808B3010-IV: Ivory, low-profile intelligent photoelectric sensor. ULC: TC808B3010CDN-IV.

TC806B3104: White, same as TC806B3010 but includes a built-in 135°F (57°C) fixed-temperature thermal device. FlashScan only. ULC: TC806B3104CDN.

TC806B3104-IV: Ivory, same as TC806B3104 but includes a built-in 135°F (57°C) fixed-temperature thermal device. ULC: TC806B3104CDN-IV.

TC806DNR3000: White, low-profile intelligent photoelectric sensor, remote test capable. For use with DNR/DNRW. FlashScan only. ULC: TC806DNR3000CDN, for use with DNRA.

TC806DNR3000-IV: Ivory, low-profile intelligent photoelectric sensor, remote test capable. For use with DNR/DNRW. FlashScan only. ULC: TC806DNR3000CDN-IV, for use with DNRA.

TC846A3013: White, intelligent high-sensitivity photoelectric smoke detector. ULC: TC846A3013CDN.

TC846A3005CDN: Ivory, intelligent high-sensitivity photoelectric smoke detector. ULC: TC846A3005CDN-IV.

VEP-A00-P-HON: Intelligent VESDA-E aspiration smoke detector with LED display, 4 pipes, covers up to 21,520 square feet. *See 74-5216*. UL/ULC Listed.

VEP-A10-P-HON: Intelligent VESDA-E aspiration smoke detector with LED and LCD display, 4 pipes, covers up to 21,520 square feet. *See 74-5216*. UL/ULC Listed.

VEP-A00-1P-HON: Intelligent VESDA-E aspiration smoke detector with LED display, single pipe, covers up to 10,760 square feet. *See 74-5216*. UL/ULC Listed.

VEU-A00-HON: Intelligent VESDA-E aspiration smoke detector with LED display, 4 pipes, covers up to 69,965 square feet. *See 74-5217*. UL/ULC Listed.

VEU-A10-HON: Intelligent VESDA-E aspiration smoke detector with LED and LCD display, 4 pipes, covers up to 69,965 square feet. *See DN-61034*. UL/ULC Listed.

VEA-040-A00-HON: Intelligent VESDA-E aspiration with LED display, 40 point-addressable detection points. Covers 36,000 square feet. *See 74-5218*. UL/ULC Listed.

VEA-040-A10-HON: Intelligent VESDA-E aspiration detector with LED and LCD display, 40 point-addressable detection points. Covers 36,000 square feet. *See 74-5218*. UL/ULC Listed.

VES-A00-P-HON-UL: Intelligent scanning VESDA-E aspiration detector with LEDs. *See DH-62040*. UL 268 7th edition.

VES-A10-P-HON-UL: Intelligent scanning VESDA-E aspiration detector with 3.5" Display. *See DH-62040*. UL 268 7th edition.

DNR: InnovairFlex low-flow non-relay duct-detector housing. ULC: DNRA. (Order TC806DNR(CDN) separately.) See 74-4076.

DNRW: Same as above with NEMA-4 rating, watertight. *See 74-4076*.

B224RB-WH, 14507371-003: White, low-profile relay base. *See 85-3043*. ULC: B224RBA-WH.

B224RB-IV: Ivory, plug-in System Sensor relay base. ULC: B224RBA-IV.

B224BI-WH, 14507371-005: White, isolator base for low-profile detectors. *See 85-3043*. ULC: B224BIA-WH.

B224BI-IV: Ivory isolator detector base. ULC: B224BIA-IV.

B300-6: White, standard flanged low-profile mounting base. (For 10-pack order B300-6-BP.) ULC: B300A-6.

B300-6-IV: Ivory, standard flanged low-profile mounting base. ULC: B300A-6-IV.

B501-WHITE: European-style, 4" (10.16 cm) base. *See 85-3043*. (For 10-pack order B501-WHITE-BP.) UL/ULC listed.

B501-BL: Black, 4" standard European flangeless mounting base. UL/ULC listed.

B501-IV: Ivory color, 4" standard European flangeless mounting base. UL/ULC listed.

B200S-WH: White, intelligent programmable sounder base, capable of producing a variety of tone patterns including ANSI Temporal 3. Compatible with synchronization protocol. *See 85-3043*. ULC: B200SA-WH.

B200S-IV: Ivory intelligent, programmable sounder base. ULC: B200SA-IV.

B200SCOA-WH: White intelligent, programmable sounder base in English/French (required in Canada for ULC applications with CO detectors. Based on B200SA. ULC listed.

B200SCOA-IV: Ivory intelligent, programmable sounder base in English/French (required in Canada for ULC applications with CO detectors. Based on B200SA. ULC listed.

B200S-LF-WH: White, low-frequency version of B200S. *See 85-3043*.

B200S-LF-IV: Ivory, low-frequency version of B200S.

B200SR-WH: White intelligent programmable sounder base, Temporal 3 or Continuous tone. For retrofit installations replacing B501BH series bases. *See 85-3043*. ULC: B200SRA-WH.

B200SR-IV: Ivory intelligent programmable sounder base, Temporal 3 or Continuous tone. For retrofit installations replacing B501BH series bases. ULC: B200SRA-IV.

B200SR-LF-WH: White, low-frequency version of B200SR. *See 85-3043*.

B200SR-LF-IV: Ivory, low-frequency version of B200SR.

TC809A1059(CDN): FlashScan monitor module. *See 74-3993*.

TC809D1004(CDN): FlashScan dual monitor module. *See 74-3993*.

TC841A1000(CDN): FlashScan two-wire detector monitor module. *See 74-3993.*

TC809B1008(CDN): FlashScan miniature monitor module. *See 74-3993.*

TC809C1004: FlashScan 4-20 mA protocol monitor module.

TC810N1013(CDN): FlashScan control module. *See 74-3995.*

TC810S1000(CDN): FlashScan releasing control module. *See 74-5068.*

TC810T1000(CDN): Firephone Telephone Module connects a remote firefighter telephone to a centralized telephone console. Reports status to panel. Wiring to jacks and handsets is supervised. *See 74-4077.*

TC810R1024(CDN): FlashScan relay module. *See 74-3995.*

TC822A1010(CDN): FlashScan dual monitor/dual relay module. *See 74-5104.*

S464G1007: Manual pull station, addressable (CLIP/FlashScan). *See 74-3365.*

XLS-MPS series: Manual pull stations, addressable and conventional. ULC listed; for use in Canada only. *See 74-5090 and 85C-3127.*

TC811A1006/TC811A1014: Isolator module. *See 74-4555.*

ISO-6(A): Six fault isolator module. *See 74-5181.*

XP6-C(A): FlashScan six-circuit supervised control module. *See 85-3069.*

XP6-MA(A): FlashScan six-zone interface module; connects intelligent alarm system to two-wire conventional detection zone. *See 85-3070.*

XP6-R(A): FlashScan six-relay (Form-C) control module. *See 85-3071.*

XP10-M(A): FlashScan ten-input monitor module. *See 85-3068.*

ENCLOSURES, CHASSIS, AND DRESS PLATES

XLS-CAB-4 Series Enclosure: XLS3000 mounts in a standard CAB-4 Series enclosure. Backbox and door ordered separately; requires BP2-4 battery plate. A trim ring option is available for semi-flush mounting. *See 85-3002.*

EQ Series Cabinets: EQ series cabinets will house amplifiers, power supplies, battery chargers and control modules. EQ cabinets are available in three sizes, "B" through "D". *See 85-3110.*

CHS-M3: Chassis for XLS3000 FACP control panel for all applications unless the XLS-DVC-EM is used with firefighter's telephones. Mounts in the top row of a XLS-CAB-4 series enclosure.

CA-2: Chassis for XLS3000 FACP control panel when XLS-DVC-EM is used with firefighter's telephone. Mounts in the top two rows of a XLS-CAB-4 series enclosure. *See 74-4033.*

DP-DISP: Display dress plate. Used whenever a CHS-M3 is used. Covers the top row of a XLS-CAB-4 series enclosure.

ADP-4B: Annunciator dress plate. Mounts in rows 2, 3 or 4 of a XLS-CAB-4 series enclosure. Used with ACS series annunciators.

BMP-1: Cover Plate. Used with the DP-DISP or ADP-4B whenever an annunciator position is unused and needs to be covered.

DP-1B: Solid Blank plate. Used to cover rows 2, 3 or 4. Used when the installed equipment does not require user interaction (such as audio amplifiers).

BP2-4: Battery Plate. Covers the battery row. One required for each XLS3000 system.(Existing XLS-BP2-4 may be used in retrofits.)

CHS-4L: Standard Chassis, Low Profile. Used in rows 1 through 4. Commonly used for AA series amplifiers.

CHS-4N: Standard Chassis, High Profile. Used in rows 1 through 4. Commonly used for APS-6R power supplies and other peripherals such as NCMs, LCMs, etc.

CHS-6: Chassis used with the XP6 and XP10 Multi-Modules. Mounts up to six modules in any XLS-CAB-4 series row.

XLS-LBB: Battery Enclosure, Black. Holds two 60 AH batteries or one 100 AH battery.

XLS-LBBR: Battery Enclosure, Red. Holds two 60 AH batteries or one 100 AH battery.

BACKBOXES

XLS-ABF-1B Annunciator Flush Box

XLS-ABF-1DB Annunciator Flush Box with Door.

XLS-ABF-2B Annunciator Flush Box

XLS-ABF-4B Annunciator Flush Box

XLS-ABS-1TB Annunciator Surface Box

BB-100: Battery Enclosure. Holds up to two 100 AH batteries.

BB-200: Battery Enclosure. Stores up to 200 AH batteries.

SEISKIT-CAB: Seismic mounting kit. Required for seismic-certified applications with XLS3000 and other equipment mounted in XLS-CAB-4 Series Enclosures. Includes battery bracket for two 26 AH batteries.

SEISKIT-LBB: Seismic kit for the XLS-LBB. Includes battery bracket for two 55 AH batteries.

XLS-ABS-2D Annunciator Surface Box

XLS-ABS-4D Annunciator Surface Box

XLS-LSP, XLS-LSPA, XLS-SSP: FS90 retrofit kit components. *See 74-5145.*

AUDIO VISUAL DEVICES (RECOMMENDED)

L-Series: Replacement for SpectrAlert® Advance wall and ceiling devices.

P2 and P4 Series: SpectrAlert Advance Wall Horn/Strobes. *See 85-0304 or 85C-0304 (Canada).*

CH Series: SpectrAlert Advance Wall Chimes. *See 85-0306 or 85C-0306 (Canada).*

SP2 Series: SpectrAlert Wall Speaker/Strobes, Wall Mount. *See 85-0302.*

SP2C Series: SpectrAlert Ceiling Speaker/Strobes, Ceiling Mount. *See 85-3101.*

SP200 Series: SpectrAlert Speakers. *See 85-0301.*

PA400 Series: SpectrAlert PA400 Series Mini Sounders. *See 85-3083.*

PF24V Series: Exit Point Directional Sounder. Used to mark perimeter exits. *See 85-3059.*

SSM Series: Standard Fire Alarm Bells. *See 85-3107.*

MISCELLANEOUS

R-10, R-20, EOLR Series: Multi-Voltage conventional relays, UL Fire rated. Used for a variety of fire applications. *See 85-3111.*

FM Series: FM Series Magnetic Door Holders. *See 85-3095.*

IPDACT-2/2UD Internet Monitoring Module: Connects to primary and secondary DACT telephone output ports for internet

communications over customer-provided Ethernet connection. Requires compatible Teldat VisorALARM Central Station Receiver. Can use DHCP or static IP. *See 74-5097.*

IPCHSKIT: IP Communicator Chassis Mounting Kit. For mounting an IPDACT-2 onto the panel chassis or CHS-4 series chassis. Use IPENC for external mounting applications.

IPSPLT: Y-adapter option allow connection of both panel dialer outputs to one IPDACT-2 cable input.

IPENC: External enclosure for IPDACT, includes IPBRKT mounting bracket; Red; for black, order IPENC-B.

HWF2V-COM: LTE Digital Cellular Fire Alarm Communicator and Internet Panel, Verizon LTE / IP. Provides selectable configurable paths: cellular only, IP only, or IP primary with cellular backup. Connects to the primary and secondary ports of a DACT. For Canadian applications order IPGSM-4GC. *See DH-62010.*

HWF2A-COM: LTE Digital Cellular Fire Alarm Communicator and Internet Panel, AT&T LTE / IP. Provides selectable configurable paths: cellular only, IP only, or IP primary with cellular backup. Connects to the primary and secondary ports of a DACT. For Canadian applications order IPGSM-4GC. *See DH-62010.*

Note: For other options including compatibility with retrofit equipment, refer to the panel's installation manual, the SLC manual, and the Device Compatibility Document.

AGENCY LISTINGS AND APPROVALS

The file number(s) below reference the specific listings for the equipment in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult Honeywell for latest listing status.

- UL Listed: S470.
- Fire Dept. of New York: COA#6100, #6126.
- CSFM: 7165-1130:0256 (Commercial).
- FM Approved.
- FM6320 Approved. Class 6320 for Gas Detection.
- City of Chicago.
- City of Denver.
- Singapore Productivity and Standards Board (PSB).
- CCCF listed.

STANDARDS

The XLS3000 Intelligent Addressable Fire Alarm is designed to comply with the following standards:

- NFPA 72 Local, Auxiliary, Remote Station, Proprietary, and Emergency Voice/Alarm Fire System Requirements.
- Underwriters Laboratories Standard UL 864, 10th edition (Control Units and Accessories for Fire Alarm Systems)
- Underwriters Laboratories Standard UL 2610 (Commercial Premises Security Alarm Units and Systems).
- Underwriters Laboratories Standard UL 2572 (Mass Notification Systems). (XLS3000 version 20 or higher)
- International Building Code IBC 2013, IBC 2009, IBC 2006, IBC 2003, IBC 2000 (Seismic).
- California Building Code CBC 2007 (Seismic)
- ULC-S527-11 Standard for the Installation of Fire Alarm Systems.

XLS3000 TECHNICAL SPECIFICATIONS

SYSTEM CAPACITY

- Intelligent Signaling Line Circuits: 1 expandable to 10
- Intelligent detectors: 159 per loop
- Addressable monitor/control modules: 159 per loop
- Programmable software zones: over 2000
- ACS annunciators per XLS3000-CPU: 32 address x 64 or 96 points

Note: The XLS3000-CPU can support up to 96 annunciator address points per ACM-24AT/-48A.

ELECTRICAL SPECIFICATIONS

Model: XLS3000 Intelligent Addressable Fire Alarm System

PRIMARY INPUT POWER:

AMPS-24: 110-120 VAC, 50/60 Hz, 4.5 A maximum.

AMPS-24E: 240 VAC, 50/60 Hz, 2.25 A maximum.

DC OUTPUT:

24 VDC: Up to 4.5 A

5 VDC: Up to 1.0 A.

CURRENT DRAW (STANDBY/ALARM):

XLS3000-CPUD board: 0.340 A.

XLS3000-CPUND board: 0.120 A.

LCM-320: 0.130 A.

LEM-320: 0.100 A.

AMPS-24(E)*: 0.13 A.
(Draws power from secondary power source only.)

Note: See AMPS-24(E) Manual 51907 for a complete current draw calculation sheet and details of input and output values.

Total Output Power: 24V, 4.5 A in alarm.

PHYSICAL SPECIFICATIONS

Temperature Ratings: Ambient: 32°F to 120°F (0° to 49°C).

Humidity Ratings: 10 to 93% RH, non-condensing.

SHIPPING WEIGHT

XLS3000-CPUD: 5.95 lb (2.70 kg).

XLS3000-CPUND: 2.90 lb (1.32 kg).

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

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