

XLS120(C)(E)

Intelligent Addressable Fire Alarm Control Panel

The Honeywell XLS120 is an intelligent fire alarm control panel designed for small- to medium-scale facilities.

In stand-alone or network configurations, Honeywell's XLS120 meets virtually every application requirement.

The XLS120's modular design makes system planning easier. The panel can be configured with just a few devices for small building applications, or networked with many devices to protect a large campus or a high-rise office block. Simply add additional peripheral equipment to suit the application. Wireless fire protection can be added with the SWIFT wireless gateway and devices.

For installations using XLS120C, an optional ACM Series annunciator can be mounted in the same cabinet (up to 48 zones/points, order separately).

When combined with a Honeywell Enterprise Buildings Integrator (EBI™), the XLS120 becomes part of an owner-operated proprietary monitoring system, allowing the connection of stand-alone or networked panels.

Note: Unless called out with a version-specific "C" or "E" at the end of the part number, "XLS120" refers to models XLS120, XLS120C, and XLS120E.



XLS120

FEATURES AND BENEFITS

- Certified for seismic applications when used with the appropriate seismic mounting kit.
- Approved for Marine applications when used with listed compatible equipment. See 74-5147.
- One isolated intelligent Signaling Line Circuit (SLC) Class A, B, or X.
- Up to 159 detectors and 159 modules per SLC; 318 devices maximum.
 - 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).
- Optional XLS-WSG(CDN) Wireless SWIFT Gateway supports wireless SLC devices.
- Standard 80-character display.
- 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 for up to 103 nodes (XLS3000, XLS140-2, XLS120(C), XLS-NCA2 Network Annunciator, or XLS-DVC-EM, and Honeywell Enterprise Buildings Integrator™ [EBI]). Up to 54 nodes when DVC-EM is used in network paging.
- 6.0 A power supply with four Class A/B built-in Notification Appliance Circuits (NAC). Selectable System Sensor, Wheelock, or Gentex strobe synchronization.
- Built-in Alarm, Trouble, Security, and Supervisory relays.
- Autoprogramming and Walk Test reports.
- Multiple central station communication options:
 - Standard UDACT
 - Internet
 - Internet/GSM
- 80-character remote annunciators (up to 32 on one panel).
- EIA-485 annunciators, including custom graphics.
- Printer interface (80-column and 40-column printers).
- History file with 800-event capacity in nonvolatile memory, plus separate 200-event alarm-only file.
- Alarm Verification selection per point, with automatic counter.
- Presignal/Positive Alarm Sequence (PAS).
- Silence inhibit and Auto Silence timer options.
- NAC coding functions:
 - March time.
 - Temporal.
 - California two-stage coding.
 - Canadian two-stage.
 - Strobe synchronization.
- Field-programmable on panel or on PC with VeriFire® Tools program check, compare, simulate.
- Full QWERTY keypad.
- Battery charger supports 18 – 200 AH batteries.
- Non-alarm points for lower priority functions.
- Remote ACK/Signal Silence/System Reset/Drill via monitor modules.
- Automatic time control functions, with holiday exceptions.
- Extensive, built-in transient protection.
- Powerful Boolean logic equations.

Honeywell

SWIFT WIRELESS

- Self-healing mesh wireless protocol.
- Each SWIFT Gateway supports up to 50 devices: 1 wireless gateway and up to 49 SWIFT devices.
- Up to 4 wireless gateways can be installed with overlapping network coverage.

RELEASING FEATURES

- Ten independent hazards.
- Sophisticated cross-zone (three options).
- Delay timer and Discharge timers (adjustable).
- Abort (four options).
- Low-pressure CO₂ listed.

HIGH-EFFICIENCY OFFLINE SWITCHING 3.0 A POWER SUPPLY (6.0 A IN ALARM)

- 120 VAC (XLS120/XLS120C); 240 VAC (XLS120E).
- Displays battery current/voltage on panel (with display).

FLASHSCAN® INTELLIGENT FEATURES

- Polls up to 318 devices in less than two seconds.
- Activates up to 159 outputs in less than five seconds.
- Multicolor LEDs blink device address during Walk Test.
- Fully digital, high-precision protocol (U.S. Patent 5,539,389).
- Manual sensitivity adjustment – up to nine levels.
- Pre-alarm intelligent sensing – up to nine levels.
- Day/Night automatic sensitivity adjustment.
- Sensitivity levels:
 - 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)
- Drift compensation (U.S. Patent 5,764,142).
- Degraded mode: In the unlikely event that the XLS120's primary microprocessor fails, FlashScan detectors revert to degraded operation and can activate the control panel's NAC circuits and alarm relay. Each of the four built-in panel circuits includes a Disable/Enable switch for this feature.
- Multi-detector algorithm involves nearby detectors in alarm decision (U.S. Patent 5,627,515).
- Automatic detector sensitivity testing (NFPA-72 compliant).
- Maintenance alert (two levels).
- Self-optimizing pre-alarm.

TC846A3013/TC846A3005 HIGH-SENSITIVITY SMOKE DETECTOR

- Advanced algorithms differentiate between smoke and non-smoke signals.
- Addressable operation pinpoints the fire location.
- Ivory models (-IV) support CLIP mode as well as FlashScan.
- ULC listed models available; "CDN" models are ULC Listed.

TC840C3206/-IV ADVANCED MULTI-CRITERIA FIRE/CO DETECTOR

- Detects all four major elements of a fire (smoke, heat, CO, and flame).
- 135°F (57.2°C) fixed-temperature heat detector.
- Transmits an alarm signal due to heat.

- Separate signal for life-safety CO detection.
- Optional addressable sounder base for Temp-3 (fire) or Temp-4 (CO) tone.
- Automatic drift compensation of smoke sensor and CO cell.
- High nuisance-alarm immunity.
- ULC listed models available; -CDN models are ULC Listed.

TC840M3021(CDN) INTELLIGENT MULTI-CRITERIA DETECTOR

- Combined photoelectric, thermal, and infrared sensor
- UL 268 7th Edition and UL 521 Listed; Canadian models CAN/ ULC S529 and CAN/ULC S530
- Microprocessor-based technology; combination photo, thermal, and infrared technology.

TC806C3022(CDN) PHOTOELECTRIC/CO SENSOR

- Combined photoelectric and carbon monoxide sensor

TC806C3011(CDN) INTELLIGENT CO SENSOR

- Carbon monoxide sensor

TC847XR1001(CDN) ADDRESSABLE INTELLIGENT SINGLE-ENDED BEAM SMOKE DETECTOR

- Intelligent addressable reflector-type linear optical beam smoke detector
- Fast, easy, and intuitive beam alignment indicated by directional LED arrows
- Long range coverage of 16-328 ft (5-100 m) is standard; no separate long-range kit required

INTELLIGENT VESDA-E DETECTORS

- Intelligent aspiration smoke detectors connect directly to the SLC loop of compatible panels such as XLS120(C):
 - VEA-040-A00-HON, VEA-040-A10-HON
 - VEP-A00-P-HON, VEP-A10-P-HON, VEP-A00-1P-HON
 - VEU-A00-HON, VEU-A10-HON
 - VES-A00-P-HON-UL, VES-A10-P-HON-UL,
- Models offer LED display, LCD display, or both
- Coverage options for spaces up to 69,965 square feet

INTELLIGENT SENSING

Intelligent sensing is a set of software algorithms that provides the XLS120 with industry-leading smoke detection capability. These complex algorithms require many calculations on each reading of each detector, and are made possible by the high-speed microcomputer used by the XLS120.

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, such as those 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.

FIELD PROGRAMMING OPTIONS

Autoprogram is a timesaving feature. The FACP “learns” what devices are physically connected and automatically loads 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.

Keypad Program Edit (with KDM-R2) The XLS120 has the exclusive feature of the product line of program creation and editing capability from the front panel keypad, while continuing to provide fire protection. The architecture of the XLS120 software is such that each point entry carries its own program, including control-by-event links to other points. This allows the program to be entered with independent per-point segments, while the XLS120 simultaneously monitors other (already installed) points for alarm conditions.

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 XLS120 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.

KDM-R2 CONTROLS AND INDICATORS

Program Keypad: QWERTY type (keyboard layout).

12 LED Indicators: Power; Fire Alarm; Pre-Alarm; Security; Supervisory; System Trouble; Signals Silenced; Points Disabled; Control Active; Abort; Pre-Discharge; Discharge.

Keypad Switch Controls: Acknowledge/Scroll Display; Signal Silence; Drill; System Reset; Lamp Test.

LCD Display: 80 characters (2 x 40) with long-life LED backlight.

PRODUCT LINE INFORMATION

CONFIGURATION GUIDELINES

The XLS120 system ships assembled; description and some options follow. See “Enclosures, Chassis, and Dress Plates” on page 5 for information about mounting peripherals.

Stand-alone and network systems require a main display. On stand-alone systems, the panel’s keypad provides the required display. On network systems (two or more networked fire panel nodes), at least one XLS-NCA2/-C annunciation device is required. (For XLS-NCA2, see 74-4045.)

MAIN SYSTEM COMPONENTS

XLS120: The standard, factory-assembled XLS120 system includes the following components: one control panel mounted on chassis (120 V operation — ships with grounding cable, battery interconnect cables, and document kit); includes integral power supply mounted to the main circuit board; one primary display KDM-R2 keypad/display; and one cabinet for surface or semi-flush mounting. *Purchase batteries separately. One or two option boards may be mounted inside the XLS120 cabinet; additional option boards can be used in remote cabinets.*

XLS120C: Based on XLS120, XLS120C adds a standard visible annunciator as required for Canadian applications. ULC listed.

XLS120E: Same as XLS120, but with 240 V operation.

TR-320: Trim ring for the XLS120 cabinet.

NETWORKING OPTIONS

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.

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. 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. Connects to an XLS•NET network to provide a TCP/IP interface to an EBI.

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

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

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 74-5072.

HPF24S6/S8: Remote 6 A and 8 A power supplies with battery charger. In Canadian applications, for use only as a NAC expander. See DH-1061

BAT Series: Batteries. XLS120 uses two 12 volt, 18 to 200 AH batteries.

COMPATIBLE DEVICES, EIA-232 PORTS

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

VS4095/5: Printer, 40-column, 24 V. Mounted in external backbox.

DPI-232: Direct Panel Interface, specialized modem for extending serial data links to remotely located FACP's and/or peripherals; mount on XLS120 chassis. See 85-3006.

COMPATIBLE DEVICES, EIA-485 PORTS

ACM-24AT: ACS annunciator – 24 points, expandable to 64 of annunciation with Alarm or Active LED, Trouble LED, and switch per circuit. Active/Alarm LEDs can be programmed (by powered-up switch selection) by point to be red, green, or yellow; the Trouble LED is always yellow. See 85-3004.

AEM-24AT: Same LED and switch capabilities as ACM-24AT, expands the ACM-24AT to 48, 72, or 96 points. See 85-3004.

ACM-48A: ACS annunciator – 48 points, expandable to 64 of annunciation with Alarm or Active LED per circuit. Active/Alarm LEDs can be programmed (by powered-up switch selection) in groups of 24 to be red, green, or yellow. See 85-3004.

AEM-48A: Same LED capabilities as ACM-48A, expands the ACM-48A to 96 points. See 85-3004.

ACM-8R: Remote Relay Module with eight Form-C contacts. Can be located up to 6,000 ft. (1828.8 m) from panel on four wires. See 85-3046.

XLS-FDU-80: Terminal mode. 80-character, backlit LCD display. Mounts up to 6,000 ft. (1828.8 m) from panel. Up to 32 per FACP. See 85-3066.

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 74-5091.

LDM: Lamp Driver Modules LDM-32, LDM-E32, and LDM-R32; remote custom driver modules. See 85-3042.

SCS: Smoke control stations SCS-8, SCE-8, with lamp drivers SCS-8L, SCE-8L; eight (expandable to 16) circuits (HVAC only). See 85-3048.

TM-4: Transmitter Module. Includes three reverse-polarity circuits and one municipal box circuit; mount on XLS120 chassis or remotely. See 85-3005.

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

COMPATIBLE INTELLIGENT DEVICES

NOTE: "CDN" suffix indicates ULC-Listed model.

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.

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.

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

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 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 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 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 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 aspiration smoke detector with LED and LCD display, 4 pipes, covers up to 69,965 square feet. See 74-5217. UL/ULC Listed.

VEA-040-A00-HON: Intelligent 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 aspiration 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.

TC809A: FlashScan monitor module. See 74-3993.

TC809D: FlashScan dual monitor module. See 74-3993.

TC841(CDN): FlashScan two-wire detector monitor module. See 74-3993.

TC809B(CDN): FlashScan miniature monitor module. See 74-3993.

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

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

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. 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: FlashScan six-circuit supervised control module. See 85-3069.

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

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

XP10-M: FlashScan ten-input monitor module. See 85-3068.

ENCLOSURES, CHASSIS, AND DRESS PLATES

CAB-BM-G Marine System: Protects equipment in shipboard and waterfront applications. For a full list of required and optional equipment, see 74-5147.

XLS-LBB: Battery Box (required for batteries larger than 26 AH).

XLS-LBBR: Same as above, but red.

SEISKIT-320/B26: Seismic mounting kit. Required for seismic-certified applications with XLS120 and BB-26. Includes battery bracket for two 26 AH batteries.

SEISKIT-BB25: Seismic mounting kit for the BB-25. Includes battery bracket for two 26 AH batteries.

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

Backboxes

XLS-ABF-1B: Annunciator Flush Box. UL/ULC Listed.

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

XLS-ABS-1B: Annunciator Surface Box

XLS-ABS-2B: Annunciator Surface Box

XLS-ABS-2B: Annunciator Surface Box

XLS-ABS-4D: Annunciator Surface Box

BB-UZC: Backbox for housing the UZC-256. Required for XLS120 applications. Black. For red, order BB-UZC-R.

OTHER OPTIONS

411: Slave Digital Alarm Communicator.

411UDAC: Digital Alarm Communicator. See 85-3064.

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.

IPSPLT: Y-adaptor option allow connection of both panel dialer outputs to one IPDACT-2/2UD 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. See *DH-62010*. (For Canadian applications order IPGSM-4GC. See *DH-60771*.)

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-60771*.)

IPGSM-4GC: Internet and Digital Cellular Fire Alarm Communicator, for Canadian applications. Provides selectable configurable paths: cellular only, IP only, or IP primary with cellular backup. Connects to the primary and secondary ports of a DACT. See *DH-60771*.

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 listings and approvals below apply to the basic XLS120 control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL/ULC Listed:** S470, S7564.
- **FM Approved.**
- **ULC Listed:** S527-11
- **CSFM:** 7165-1130:0265.
- **Fire Dept. of New York:** COA#6099, #6218

Marine Applications: Marine approved systems must be configured using components itemized in this document. (See Main System Components, in "Product Line Information.") Specific connections and requirements for those components are described in the installation document, PN 54760. When these requirements are followed, systems are approved by the following agencies:

- **US Coast Guard** 161.002/B50/0 (Standard 46 CFR and 161.002).
- **Lloyd's Register** 11/60017 (ENV 3 category).
- **American Bureau of Shipping** (ABS) Type Approval.

Note: For information on marine applications, see 74-5147.

STANDARDS

The XLS120 complies with the following UL Standards and NFPA 72, International Building Code (IBC), and California Building Code (CBC) Fire Alarm Systems requirements:

- **UL 864**, 10th edition (Control Units and Accessories for Fire Alarm Systems).
- **UL 2610** (Commercial Premises Security Alarm Units and Systems).
- **UL 2572** (Mass Notification Systems). (XLS120 version 20 or higher).
- **ULC-S527-11** Standard for the Installation of Fire Alarm Systems.
- **LOCAL** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **AUXILIARY** (Automatic, Manual and Waterflow) (requires TM-4).
- **REMOTE STATION** (Automatic, Manual, Waterflow and Sprinkler Supervisory) (requires TM-4).
- **PROPRIETARY** (Automatic, Manual, Waterflow and Sprinkler Supervisory). *Not applicable for FM.*
- **CENTRAL STATION** (Automatic, Manual, Waterflow and Sprinkler Supervisory) (requires DACT).
- **EMERGENCY VOICE/ALARM.**
- **OT, PSDN** (Other Technologies, Packet-switched Data Network).
- **IBC 2012, IBC 2009, IBC 2006, IBC 2003, IBC 2000** (Seismic).
- **CBC 2007** (Seismic).

XLS120(C)(E) TECHNICAL SPECIFICATIONS

SYSTEM CAPACITY

- Intelligent Signaling Line Circuits: 1
- Intelligent detectors: 159
- Addressable monitor/control modules: 159
- Programmable internal hardware and output circuits: 4
- Programmable software zones: 99
- Special programming zones: 14
- LCD annunciators per XLS120/XLS120E/XLS120C: 32
- ACS annunciators per XLS120/XLS120E/XLS120C: 32 addresses x 64 points

ELECTRICAL SPECIFICATIONS

- Primary input power:
- XLS120: 120 VAC, 50/60 Hz, 5.0 A.
- XLS120E: 220/240 VAC, 50/60 Hz, 2.5 A.
- Current draw (standby/alarm):
 - XLS120(E) board: 0.250 A. Add 0.035 A for each NAC in use.
 - KDM-R2 (Backlight on): 0.100 A.
- Total output 24 V power: 6.0 A in alarm.

Note: The power supply has a total of 6.0 A of available power. This is shared by all internal circuits. See Installation Manual for a complete current draw calculation sheet.

- Standard notification circuits (4): 1.5 A each.
- Resettable regulated 24V power: 1.25 A.
- Two non-resettable regulated 24V power outputs:
 - 1.25 A.
 - 0.50 A.
- Non-resettable 5V power: 0.15 A.
- Battery charger range: 18 AH – 200 AH. Use separate cabinet for batteries over 26 AH.
- Float rate: 27.6 V.

CABINET SPECIFICATIONS

XLS120/XLS120C cabinet dimensions:

- Backbox: 18.12 in. (46.025 cm) width; 18.12 in. (46.025 cm) height; 5.81 in. (14.76 cm) depth.
- Door: 18.187 in. (46.195 cm) width; 18.40 in. (46.736 cm) height; 0.75 in. (1.905 cm) depth.
- Trim ring: Molding width is 0.905 in. (2.299 cm).
- Shipping weight (without batteries):
 - XLS120: 36.15 lb. (16.4 kg).
 - XLS120C: 37 lb. (16.78 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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