



SMX+

Intelligent Addressable Fire Alarm Control System



SMX+ is an intelligent Fire Alarm Control Panel designed to meet a large array of applications. The SMX+ is best suited for small to mid-sized installations in a commercial or residential environment:

- Proven, reliable and efficient intelligent Fire Alarm control panel created to address needs installer and end-users.
- Flexible and scalable architecture which makes it suitable small and mid-sized networked facilities
- Extensive list of compelling features. With one to four Signaling Line Circuits (SLCs), the SMX+ supports up to 792 intelligent addressable devices per panel and is capable of networking up to 16 nodes.
- Connectivity with BACnet and Modbus permits SMX+ to integrate into 3rd party / Security / Building Management System.
- Integration with CLSS Gateway enables customers to deliver an enhanced fire safety service, while maximising the performance efficiencies by Honeywell's Connected Life Safety Services (CLSS)

Features and Benefits

- One to Four isolated intelligent Signaling Line Circuits
- Up to CLIP 99 detectors and 99 CLIP modules per SLC, 198 devices per loop / 792 per FACP (or network node)
- Detectors can be any mix of photo, thermal, multi-criteria modules can be addressable manual call points, normally open contact devices, two-wire smoke detectors, notification and relay
- Large 640-character LCD backlit display
- Network up to 16 SMX+ nodes
- SMX+ Tools for online/offline program, test and reporting PC software.
- Weekly Occupancy Schedules allow changing sensitivity by time of day and day of week
- With built-in SLC Local mode operation; the system is capable of activating sounders and relays if a fire alarm condition is present even if the central processing unit (CPU) fails
- Range of annunciators for ancillary display & control
- History file with 4000-event capacity plus separate 1000-event alarm-only file
- Advanced history filters allow sorting by event, time, date, or address
- Alarm Verification Facility (AVF) selection per point, with automatic counter
- Enable / Disable Range of Points (Detectors/ Modules) or Zones
- Auto-programming and Walk Test reports
- Alarm Delay Facility (ADF)
- Field-programmable on panel with QWERTY keypad
- Non-alarm points for lower priority functions
- Support for compliant smoke control with SCS Series smoke control system

Features and Benefits

- Polls up to 198 devices on each loop
- Activates up to 99 outputs in less than ten seconds
- Compatible with System Sensor CLIP detectors
- Fire-Lite VeriFire Tools for programming the SMX+ panel
- Manual sensitivity adjustment
- Password protected and selectable access levels
- Drift compensation
- Automatic detector sensitivity testing
- Maintenance alert (two levels)
- Self-optimizing pre-alarm
- Programmable activation of sounder/relay bases during alarm or pre-alarm
- Read Status displays the level of detector cleanliness

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Product line information

ITEM	DESCRIPTION
Main System Components	
CPU2-SMX+	SMX+ central processing unit including display
DISP-SMX+	Keypad and display; includes 640-character backlit LCD display, QWERTY programming, and control keypad.
NPS-5CHS/NPS-11CHS	24VDC power supply unit for SMX+
ELCM-320	Loop Control Module. Provides one SLC. SMX+ supports up to two ELCM-320s and two LEM-320 expanders for a total of four SLCs.
LEM-320	Loop Expander Module. Expands an ELCM-320.
Networking Options	
SMX+NCA-2	• Network Control Annunciator, CPU ONLY. • An alternate primary display for CPU2-SMX+ can be provided by the SMX+NCA-2. On network systems, the NCA-2 connects to a standard NCM or HS-NCM. • Note: DISP-SMX+ display needs to be used along with SMX+NCA-2
NCM-W, NCM-F	Standard Network Communications Modules. Wire and multi-mode fiber versions available.
High Speed NCM - MF/SF/WMF (-2)/WSF (-2)/ MFSF	Wire, single-mode fiber, multi-mode fiber, and media conversion models are available.
RPT-W, RPT-F, RPT-WF	Standard-network 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.
Auxiliary Power Supplies and Batteries	
NPS-5CHS	One optional for each SMX+. Power supply and battery charger with two 24 VDC outputs up to 5A output total. Charges 7 to 50 AH batteries. Auxiliary power for panel or panel equipment.
NPS-11CHS	One optional for each SMX+. Power supply and battery charger with two 24 VDC outputs up to 11A output total. Charges 7 to 110 AH batteries. Auxiliary power for panel or panel equipment.
Audio Options	
DA2-30/DA2-60/DA2-120	Digital Amplifier. DA2-30 is 30 watts, DA2-60 is 60 watts, DA2-120 is 120 watts, 100 Vrms. Includes audio input and amplified output supervision.
SAM-4	4 way Speaker Line Monitoring and distribution module for use with DA2 series amplifiers
Compatible Devices, EIA-485 Ports	
ACM-24AT-AUS	Annunciator Control 24 buttons, 48 LEDs
AEM-24AT-AUS	Annunciator Expander 24 buttons, 48 LEDs
ACM-48A-AUS	Annunciator Control, 48 LEDs, to suit SMX+/NCA-2
AEM-48A-AUS	Annunciator Expander, 48 LEDs, to suit SMX+/NCA-2
ACM-8RA	Eight Programmable Timed Relay Module.
LCD2-80-AUS	LCD Annunciator (80 Character), to suit SMX+/NCA-2
LDM-E32-AUS	Lamp Driver Module (Expander), 32 LEDs or LDM-R32
LDM-32-AUS	Lamp Driver Module (Control), 32 LEDs or LDM-R32
LDM-R32-AUS	Lamp Driver Relay Kit, 32 Relay board, requires LDM-32
SCS-8A	Smoke Control Annunciator (Control) 8 x switch groups
SCE-8A	Smoke Control Annunciator (Expander) 8 x switch groups
SCS-8L	Smoke Control Lamp Driver Kit 8 x switch groups
SCE-8L	Smoke Control Lamp Driver (Expander) to suit SMX+

Product line information continue

ITEM	DESCRIPTION
Compatible Intelligent Devices	
BEAM1224 ¹	Intelligent beam smoke detector.
BEAM1224S ¹	Intelligent beam smoke detector with integral sensitivity test.
OSI-RI-SS	Intelligent OSID - Imaging BEAM Smoke Detector
5251B-WP	System Sensor CLIP Type B sealed thermal detector 57°C.
5251RB-WP	System Sensor CLIP Type A sealed thermal detector 57°C with rate-of-rise
2251BAUS	System Sensor CLIP photoelectric detector.
5251BAUS	System Sensor CLIP Type B thermal detector 57°C.
5251RBAUS	System Sensor CLIP Type A thermal detector 57°C with rate-of-rise.
DNR-AUS	InnovairFlex low-flow non-relay duct-detector housing (order photoelectric sensor sold separately).
DNRW	Same as above with NEMA-4 rating, watertight.
2351BAUS	Intelligent Photo-Optical Smoke Detector, System Sensor
2351TBAUS	Intelligent Photo-Optical & Thermal Detector, System Sensor
2351PTIR AUS	Intelligent Photo, Thermal and IR Multi-Criteria Detector, System Sensor
5351BAUS	Intelligent Fixed Temperature Thermal detector, System Sensor
5351RBAUS	Intelligent Rate-of-Rise Thermal detector, System Sensor
5351HAUS	Intelligent High Temperature Fixed Thermal detector, System Sensor
7351AUS	Intelligent High Sensitivity Detector, System Sensor
B501AUS-IV	4" (10.16 cm) universal detector base, off-white.
B501AUS-W	4" (10.16 cm) universal detector base, pure white.
B521IEFT-IV	4" (10.16 cm) universal detector base with in-built short-circuit isolator, off-white.
B501BI-W / IV/ BL	4" (10.16 cm) universal detector base with in-built short-circuit isolator, white. Ivory, Black
AAM/LP/HL	Alarm Acknowledgement Module, HL, w.LED horizontal orientation
AAM/LP/V	Alarm Acknowledgement Module, V, no LED vertical orientation
AAM/LP/VL	Alarm Acknowledgement Module, V, w.LED vertical orientation
B501AP-IV	Plug in base off white colour for AV series
M500M	System Sensor CLIP monitor module.
M500X	Isolator module.
SC-6	System Sensor CLIP six-way monitored control module.
CZ-6	Six-zone interface module; connects intelligent alarm system to two-wire conventional detection zone.
CR-6	System Sensor CLIP six-relay (Form-C) control module.
IM-10	System Sensor CLIP ten-input monitor module.
M502M	System Sensor CLIP conventional zone module.
M501M	System Sensor CLIP miniature monitor module.
M500R	System Sensor CLIP relay/control module.
M500S	System Sensor CLIP single intelligent control module.
M500DMR	System Sensor CLIP dual monitor/dual relay module.
Audio Visual Alarm Devices (AAD & VAD's)	
WSO-PP-N46	Addressable Wall Sounder - White, System Sensor, CLIP
WSO-PR-N46	Addressable Wall Sounder - Red, System Sensor, CLIP
VAD-PC-I00	SS Pure White Clear Strobe "w Isolator, AS7240.23 (C-3-5.1)
WSS-PC-I01	HON Pure White Sounder StrobevClear w Isolator, AS7240.23 O Category
BSO-LASS-NCW	Addressable Sounder Base - Pure white, System Sensor, CLIP (requires B501-W base)
Addressable Manual Call Point (MCP)	
M5A-RP01SF-K013-01	Address Clip Indoor MCP b/b House&Flame with flexible element, requires clear flap and back box.
W5A-RP01SG-K013-01	Red CLIP MCP surface, IP67, House+Flame requires SR, c/w flex-element, clear flap
Conventional Manual Call Point (MCP)	
M1A-R470SG-STCK-01	Red surfacemount MCP, House + Flame, back box included
M3A-R000SF-STCK-01	Red resettable surfacemount MCP

¹Legacy device

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Product Line Information

ITEM	DESCRIPTION
Enclosures, Chassis and Dress Plates	
CAB Series Enclosures	SMX+ mounts in a standard CAB Series enclosure (available in two sizes, CAB650 and CAB900). The CAB series enclosures are available with a solid and window outer door. A trim ring option is available for semi-flush mounting.
BMP-1	Blank module for unused module positions.
CHS-3L	Low-profile Chassis. Mounts up to three modules in any CAB series row.
CHS-4	Chassis used with the SC6, CR6 and IM10 Multi-Modules. Mounts up to four modules in any CAB series row.
Other Options	
ARM-AUS	Agent releasing module for extinguishing agent releasing CIE
System Capacity	
Intelligent Signalling Line Circuits	1 expandable to 4
Intelligent detectors	99 per SLC (CLIP protocol)
Addressable monitor/control modules	99 per SLC (CLIP protocol)
Programmable software zones	Over 2000
ACS annunciators per CPU	32 address x 64 or 96 points
LCD Mimic per CPU	Terminal and ACS mode. 80-character, backlit LCD display. Mounts up to 1800m from panel. Up to 32 per FACP
Electrical Specifications	
Primary Input Power	- NPS-5CHS Fitted: 240vac, 0.8A, 50Hz. - NPS-11CHS Fitted: 240vac, 1.5A, 50Hz. - Input Fuse: 2=M205 8.0A, 250vac
Battery	Two 12V Sealed Lead-Acid batteries.
Battery charger capacity	7AH-85AH (CAB650/CAB900 enclosures hold a maximum of two 33AH batteries)
Current draw (Standby/Alarm)	- SMX+: 0.205 A / 0.225 A. - LCM-320: 0.130 A. - LEM-320: 0.100 A.
Enclosure Specifications	
CAB650	650mm(h) x 450mm(w) x 190mm(d), Charcoal texture
CAB900	900mm(h) x 450mm(w) x 190mm(d), Charcoal texture
Temperature and Humidity	
Temperature	This system meets AS requirements for operation at 0 – 40°C
Humidity	Relative humidity 93% ± 2%.

NOTE: For other options including compatibility with retrofit equipment refer to the SMX+ Installation manual

• See SMX+ Manual for a complete current draw calculation sheet and details of input and output values.

SMX+ Agent Release Panel

SMX+ Agent Release Panel provides reliable fire detection and protection for commercial, industrial and institutional buildings requiring extinguishing agent-based releasing.

The standard panel is equipped with 1 addressable loop and incorporates one Dual-risk Extinguishing Agent Release zone module. The module provides for connection of Visual Warning Devices (VWD) and Local Control Stations (LCS). The system can be configured for either single or dual activation (double interlock) prior to release.

Agent Release Panel Features

Dual risk operation- from three risk inputs

Field Devices:

- Local Control Station (LCS)
- Extensive range of warning signs

Adjustable discharge delay timers

Output contacts for:

- Alarm1 & Alarm 2
- System fault
- Automatic/ Manual operation
- Discharge

• Monitored for short and open circuit.

• High power 5A Extinguishing Agent release device output.

• Optional Pyrozone interface.

• "Do Not Enter", Dual Level and "System Inoperative" sign outputs.

See Agent Release Module Data sheet DOC-02-xxx for more information.

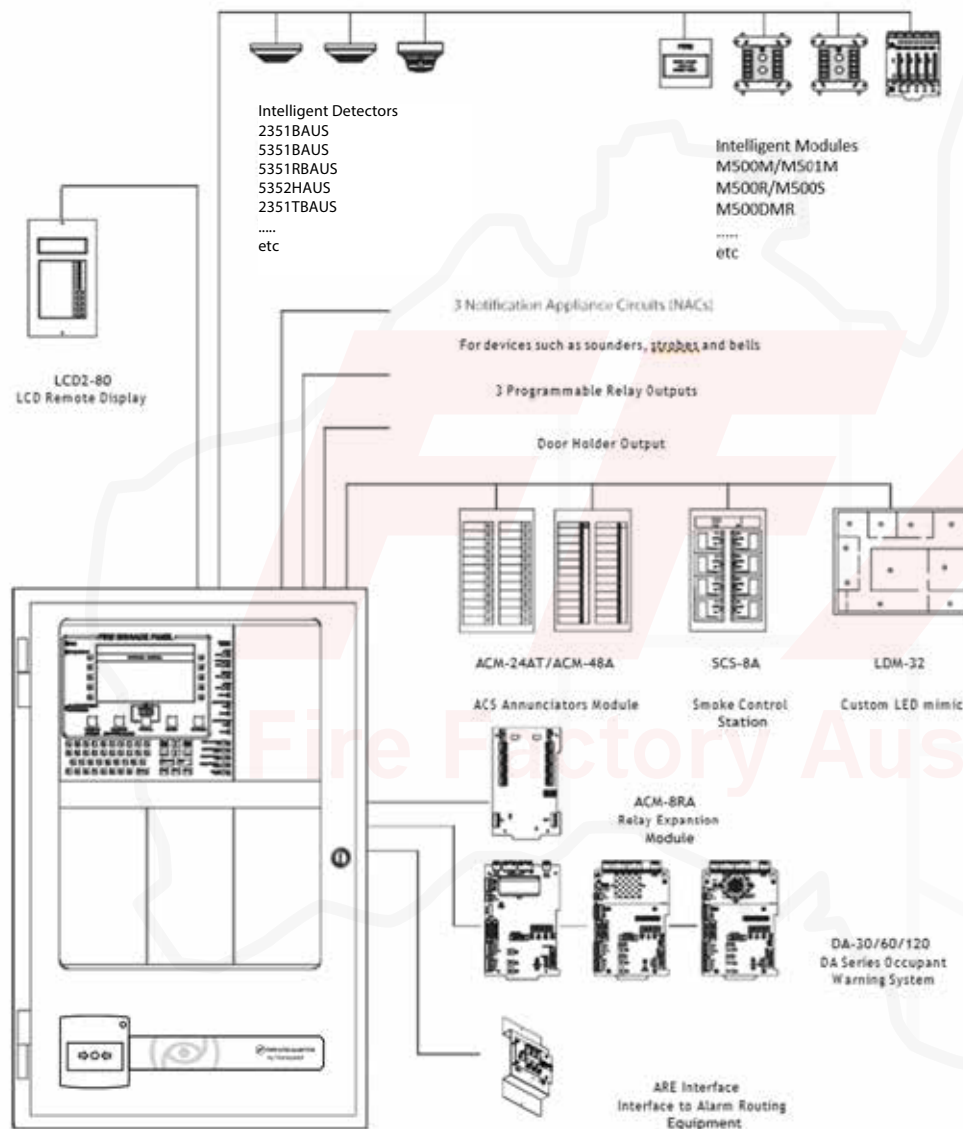
Agency listings and approvals

These listings and approvals apply to the modules specified 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 system consultant for latest listing status.

AS 7240.2, AS 7240.4, AS 4428.3

Activfire certificate # afp-3656



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All specifications are subject to change without notice.

