



FXIP PRODUCT CATALOG



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**ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT
NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.**

Fire Control

[FC-250 Distributed Fire Control Panel](#)



The FxIP™ fire control network from Harding Instruments is a revolutionary IP-based fire control network consisting of a series of addressable control modules that can be distributed throughout any type of facility.

No central processing unit is required. Core modules connect to other core modules to form the fire protection system. With no single point of failure, distributed modules provide the greatest degree of scalability, survivability and building protection. True distributed architecture provides scalability and ensures reliable and timely response times.

Please Contact your local distributor or visit www.harding-tech.com for ordering options

[AC-100 Remote Module Cabinet](#)



The AC-100 Accessory Cabinet is used for installing remote ALM3-IP modules as well as various Ethernet switches. The AC-100 uses different internal subplates to mount module boards or Ethernet switches. Each AC-100 cabinet is powered from the external 24 Vdc power output of an FC-250 cabinet, or an external third-party UL 864 listed power supply with a power limited regulated 24 Vdc output.

Order # • AC-100P-1 • AC-100P-2 • AC-100P-4 • AC-100P-5

[10A Conventional Power Supply with 6 Outputs NAC Expander](#)



The PSN-106 notification power supply offers reliable notification power with unprecedented versatility. The power supply offers 10 amps of continuous power through 6 outputs. Each output is rated at 3 amps and it may be used continuously without any derating. Each output can independently be configured to provide one of four synchronizations or steady power. This provides unequivocal flexibility in new and retrofit installations. The panel can be configured to synchronize Potter/AMSECO®, Gentex®, Wheelock® and System Sensor® strobe devices (patent pending). Each output can be configured the same sync protocol or set independently

Order # • PSN-106R

[6A Conventional Power Supply with 4 Outputs NAC Expander](#)



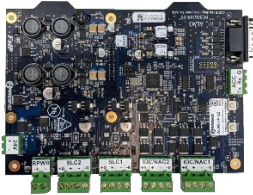
The PSN-64 notification power supply offers reliable notification power with unprecedented versatility. The power supply offers 6 amps of continuous power through 4 outputs. Each output is rated at 3 amps and it may be used continuously without any derating. Each output can independently be configured to provide one of four synchronizations or steady power. This provides unequivocal flexibility in new and retrofit installations. The panel can be configured to synchronize Potter/AMSECO®, Gentex®, Wheelock® and System Sensor® (strobe devices (patent pending). Each output can be configured the same sync protocol or set independently

Order # • PSN-64

FxIP Module

System Modules

Addressable Loop Module



The Addressable Loop Module (ALM3-IP) communicates with all other modules installed on the network through an Ethernet connection and is addressed through the ALM3-IP unique IP address.

The ALM3-IP manages Class A/B Signaling Line Circuits (SLC), Class A/B Notification Appliance Circuits (IOC/NAC) or both, depending on the module configuration. The number of each type of circuit is specified by the trailing 2 digits in the ALM3-IP part number. Thus, an ALM3-IP-12 would have a single SLC and two IOC/NAC circuits.

Order #	ALM3-IP-10	ALM3-IP-02	ALM3-IP-12	ALM3-IP-20	ALM3-IP-22
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Annunciator Control Module



The Annunciator Control Module (ACM3-IP) is used to drive LED or relay points. The ACM3-IP communicates with all other modules installed on the network through an Ethernet connection and is addressed through the ACM3-IP unique IP address.

Each ACM3-IP board can monitor and control up to 64 configurable points. These points can either be LED or open collector output drivers on the LED Control Board (LCB3) or relay points on the Relay Control Board (RCB3).

Order #	• ACM3-IP
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Annunciator Expander Module

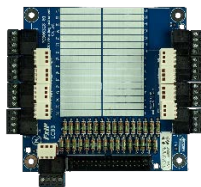


Each AXM3 adds an additional 128 configurable points to the system. Up to 15 AXM3's may be daisy chained from the ACM3-IP to provide a total of 1984 configurable points per ACM3-IP.

Points can be programmed to activate on system wide events such as General Alarm, General Trouble, General Supervisory, Signal Silence and other events.

Order #	• AXM3
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LED Control Board



The LED/open collector outputs on the LCB3, the expandable high-point capacity and the ease of status specific programming of each point make the LCB3 ideal for simple LED annunciation.

Each LCB3 contains 32 individual LED/open collector output points.

Order#	• LCB3
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Relay Control Board



Each RCB3 contains 32 Form A relays rated at 5A each

Order# • RCB3

Fiberoptic Ethernet Switch



The EIS6-100T is a combination copper/fiber-optic switch for communication up to 2 or 40 kilometers (depending on model) with optional mode and connector-type selections.

The EIS6-100T is available as a copper-only switch or with ST/SC fiber connectors to support either single-mode or multi-mode.

Both the ESU3-IP and the EIS6-100T can be mounted directly in the remote cabinet (AC-100-2), powered by UL864 listed power supplies.

Order # • EIS6-100T-FT • EIS6-100T-FCS

Common Control Relay



The Common Control Relay Card (CCR3) provides for Common Alarm, Common Trouble and Common Supervisory relays (NO/CO/NC) activated by events anywhere on the fire control network. The three relays are rated at 5.0A @30 VDC Resistive load each.

The CCR3 can be mounted with any SDM3-IP installed on the network fire system by a simple ribbon cable connection. Multiple instances of the CCR3 may be installed as required on each display module installed on the network and up to two CCR3 boards may be daisy chained together off of any single network module. The CCR3 is mounted directly to the system chassis within the cabinet.

Order # • CCR3

Masterbox Line Reversal



The Masterbox/Line Reversal card (MLR3) is also mounted with any display module installed on the network fire system by a simple ribbon cable connection. If present, the MLR3 may be daisy-chained directly off of the CCR3. The MLR3 is mounted directly to the system chassis within the cabinet.

Order# • MLR3

Ethernet Transient Protection Board



The Ethernet Transient Protection Board (ETP3) is designed for interfacing on Harding's RA-220 or AC-100. The Ethernet Transient Protection Board is designed to protect your system from lightning and electrical surges for two lines with improved frequency response for 10/100/1000 ethernet networks.

The ETP3 is compatible with 802.3af/at Power over Ethernet (PoE) devices.

An ETP3 is not required if an ESU3 is present.

Order # • ETP3

Ethernet Switch Unit



The ESU provides 8 transient protected Ethernet ports to communicate with local and remote IP modules

Order # • ESU3-IP

Power Supply Unit



The Power Supply Unit (PSU3) provides 24V/10.5A of system power. Power is available for all IP modules, switches, XPansion bus modules and attached devices.

Order # • PSU3

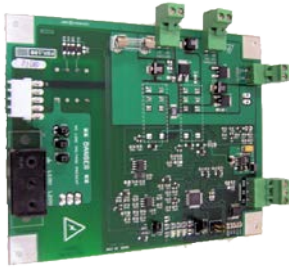
Battery Charger Unit



Battery charging is accomplished by the Battery Charger Unit (BCU3) which provides 27.6V/2.4A of battery charging power. The BCU3 is capable of charging 70Ah batteries.

Order # • BSU3

Power Supply Module



The Power Supply Module (PSM3) supervises the PSU3 and BCU3 and monitors the panel and associated field wiring for earth ground faults. The PSM3 provides connections for both internal and external (power limited) 24VDC. The PSM3 also monitors for brownout conditions, low/no batteries and other electrical monitoring functions established by UL 864/10th edition.

Order # • PSM3

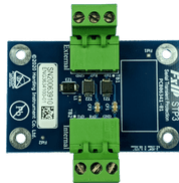
USB Expansion Board



The UXB3 USB Connection Board provides two user accessible USB type A connectors for USB keyboard and USB flash drive connections. The UXB3 connects to the SDM3-IP via a short ribbon cable

Order # • UXB3

Serial Transient Protection Board



The Serial Transient Protection Board (STP3) is designed for interfacing on Harding's AC-100. The Serial Transient Protection Board is designed to protect your system from transient surges.

Order # • STP3

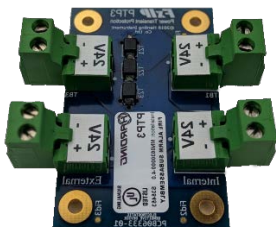
Standard Display Module/ Virtual Display Module



A single SDM3-IP can interact with up to 49 additional distributed modules of any type in any configuration. As modules are attached to the network, they obtain their IP address assignments from the SDM3-IP managing the modules on the fire control network. All modules are connected with Ethernet cabling.

Order # • SDM3-IP • VPM3-IP

Power Transient Protection Board



The Power Transient Protection Board (PTP3) is designed for interfacing on Harding's RA-220 or AC-100. The Power Transient Protection Board is designed to protect your system from lightning and electrical surges

Order # • **PTP3**

Field Modules

Mini Monitor Module



The S21 Mini Monitor Module is a loop-powered device, which incorporates a monitored input circuit for connection to switches. The module is supplied in a small housing designed to fit into an electrical box, or to be DIN-rail mounted. The Mini Monitor Module has an optional priority interrupt facility to give fast response and can be fitted in an electrical box behind a pull station. This option is selected via the eighth section of the DIP switch.

Order # • **55000-760** • **IOM2101**

XP95A Priority Switch Monitor Module- Dual Channel



The Dual Priority Switch Monitor Module (IOM2103) is an addressable dual switch monitor that is a means of connecting and identifying two conventional monitor point circuits at the main Harding fire control system. IOM2103 switch monitors connect to the SLC, are programmed via an 8 pin DIP switch (1-7 for addressing, 8 for Class A/B), are polarity insensitive and are used to monitor one or two Class A or B (Style D or B) circuits.

Order # • **55000-790** • **IOM 2103**

XP95A Switch Monitor Module



The Point Identification Module (IOM2104), Mini Point Identification Module (IOM2109) and DIN rail version (IOM2101) of switch monitors can report Fire Alarm, Pre-Alarm, Supervisory Alarm, Trouble and Input On events. In addition, these modules may be programmed to provide remote Acknowledge, Signal Silence and Reset functions.

Order # • **55000-805** • **IOM 2104**

XP95A Priority Switch Monitor Module



The Priority Input Device (IOM2105) and the Mini Priority Input Device (IOM2108) incorporate the priority interrupt feature. These devices are used where a fast response is required (as with pull stations). Priority interrupt switch monitors report Fire Alarm or Supervisory alarm events.

Order # • **55000-806** • **IOM 2105**

XP95A Switch Monitor I/O Module



The I/O modules connect to the SLC and are programmed via an 8 pin DIP switch (1-7 for addressing, 8 for Class A/B). There are no limitations on the number of I/O Modules that may be added to a single SLC loop (up to the SLC maximum of 126 device/detector types). The supervised inputs are designed to monitor the state of one or more single-pole, volt-free contacts connected on a single pair of cables and may be wired in either a Class A or B (Style D or B) fashion. The Harding Switch Monitor I/O Modules provide for two different types of input and one relay output all on single addressable module yet consumes only one device address.

Order # • **55000-820** • **IOM 2106**

XP95A AV Control Module



The Sounder Control Modules (IOM2107) are addressable devices that provide a means to remotely locate a fully supervised circuit for the operation of signal appliance such as horns, strobes and horn/strobes. The IOM2107 can also monitor and control PA speaker circuits from the main Harding control system via the SLC.

The Sounder Control Modules connect to the SLC, are programmed via an 8 pin DIP switch (1-7 for addressing, 8 for Class A/B) and are polarity insensitive.

Order # • **55000-825** • **IOM 2107**

XP95A Mini Priority Switch Monitor Module



The Switch monitors (IOM2101, IOM21104, IOM2105, IOM2108 and IOM2109) are addressable devices that are a means of connecting and identifying conventional monitor points at the main Harding fire control system. Switch monitors connect to the SLC, are programmed via an 8 pin DIP switch (1-7 for addressing, 8 for Class A/B), are polarity insensitive and are used to monitor a single Class A or B (Style D or B) circuit.

Order # • **55000-830** • **IOM 2108**

XP95A Mini Switch Monitor Module



The Switch monitors (IOM2101, IOM21104, IOM2105, IOM2108 and IOM2109) are addressable devices that are a means of connecting and identifying conventional monitor points at the main Harding fire control system. Switch monitors connect to the SLC, are programmed via an 8 pin DIP switch (1-7 for addressing, 8 for Class A/B), are polarity insensitive and are used to monitor a single Class A or B (Style D or B) circuit.

Order #

• 55000-831

• IOM 2108

XP95A Switch Monitor I/O Module 120 V AC (UL/ULC)



The Switch Monitor I/O Modules (IOM2106, IOM2102, IOM2110) provide for two different types of input and one relay output all on single addressable module yet consumes only one device address.

The I/O modules connect to the SLC and are programmed via an 8 pin DIP switch (1-7 for addressing, 8 for Class A/B). There are no limitations on the number of I/O Modules that may be added to a single SLC loop (up to the SLC maximum of 126 device/detector types).

Order #

• 55000-859

• IOM 2110

XP95A Relay Output Module



The Relay Output Module (IOM2111) is an addressable device that is a means of connecting to and controlling building functions such as electromagnetic door holders, dampers, motors, elevators and disconnects from the main Harding fire control system.

Order #

• 55000-863

• IOM 2111

Conventional Zone Interface



The Conventional Zone Interface (CZI-95) is designed as the interface between the fire alarm control panel's (FACP) analog circuits and the normally-open contact devices or conventional smoke detectors. The Conventional Zone Interface device monitors up to 25 conventional detectors. You can use the Conventional Zone Interface modules with Style B, C, D or E wiring

Order #

• CZI-95

Multi-Voltage Control Relay



The Multi-Voltage Control Relays offer SPDT 10 Amp resistive contacts which may be operated by one of four input control voltages. A single relay may be energized from a voltage source of 24VDC, 24VAC, 120VAC or 230VAC by wiring to appropriate input terminals

Order #

- **MR-100**
- **MR-200**
- **MR-300**
- **PAM-1**

Detectors and Bases

Addressable Detectors

XP95A Heat Detectors



The XP95A heat detector uses a single thermistor to sense the air temperature at the detector position. The thermistor is connected in a resistor network, which produces a voltage output dependent on temperature.

The XP95A thermal heat sensor is unique in the industry as it is fully field programmable in 1 °C (2°F) increments through the Harding network fire control. This allows field modifications to minimize false alarms on installed field devices that may be in areas with normally hot conditions such as attic areas, rooftop dwellings and boiler rooms.

Order # • 55000-450APO • SA5050-150 • DET 2101

XP95A Ionization Smoke Detector



The XP95A Ion sensor's drift compensation is managed by the ALM3-IP. The ALM3-IP monitors the average ambient analog count being returned from each XP95A detector connected to the system. Due to the accumulation of dirt and dust over time, the average ambient analog count for each detector will climb. The ALM3-IP will adjust the specific detector's alarm threshold proportionately to compensate for the rise in the average ambient count. This keeps the detectors sensing window open to the factory set tolerances established when new.

Order # • 55000-550APO • DET 2102

XP95A Photoelectric Smoke Detectors



The XP95A Photoelectric Smoke Detector constantly monitors its sensing chamber and its internal electronics utilizing a patented smoke chamber and infrared smoke sensing design. The photo-diode signal is processed to provide an analog value for transmission when the detector is interrogated by the ALM3-IP.

Order # • 55000-650APO • SA5050-250 • DET 2104

XP95A Multi-Sensor Detectors



The XP95A Multi-sensor construction is similar to the photoelectric detector (DET2104) but uses a different lid and optical moldings to accommodate the thermistor temperature sensor.

The signals from the photoelectric smoke sensing element and the temperature sensor are independent, and represent the smoke level and the air temperature in the vicinity of the detector. The detectors microcontroller processes the two signals. The temperature signal processing extracts only rate of rise information for combination with the optical signal. The XP95A is not a fixed temperature heat detector.

Order # • 55000-886APO • SA5050-350 • DET 2105

Discovery UL Heat Detector



The Discovery UL Heat Detector uses a single thermistor to sense the air temperature at the detector position. The thermistor is connected in a resistor network, which produces a voltage output dependent on temperature.

The design of the resistor network, together with the processing algorithm in the microcontroller, gives an approximate linear temperature characteristic. This signal is further processed, depending on the response mode selected, and converted to an analog output for transmission to the ALM3-IP.

Order # • 58000-450APO • DET 2201

Discovery UL Ionization Smoke Detector



The Discovery UL Ionization Smoke Detector can operate in one of five response modes, any of which can be selected from the control panel. Each mode corresponds to a unique response behavior, broadly related to sensitivity to fire. Whatever the type of detector, mode 1 will give a higher sensitivity to fire than mode 5. The selection of the most suitable mode depends on the application. For the Discovery UL Ionization Smoke Detectors, the modes relate to different combinations of smoke response threshold and response time.

Order # • 58000-550APO • DET 2202

Discovery UL Photoelectric Smoke Detector



The Discovery UL Photoelectric Smoke Detector constantly monitors its sensing chamber and its internal electronics utilizing a patented smoke chamber and infrared smoke sensing design. The photo-diode signal is processed to provide an analog value for transmission when the detector is interrogated by the ALM3-IP.

Order # • 58000-650APO • DET 2204

Discovery UL Multi-Sensor Detector



The Discovery UL Multi-Sensor Detector contains a photoelectric smoke detector and thermistor temperature sensor whose outputs are combined give the final analog value to the ALM3-IP.

The way in which the two signals from the two sensors are combined depends on the response mode selected. The five modes of operation provide response behaviors which incorporate pure heat detection, pure smoke detection and a combination of both. The Discovery UL Multi-Sensor Detector is therefore the most useful detector over the widest range of applications.

Order # • 58000-750APO • DET 2205

Solteria Heat Detectors



The Soteria Heat Detector features two heat sensors located laterally to ensure accurate heat detection in all orientations.

COMING SOON

Order # • **SA5150-450**

Solteria Optical Smoke Detector



The Soteria Optical Smoke Detector uses advanced optical sensing technology, PureLight, to provide advanced false alarm management and increased detector reliability.

COMING SOON

Order # • **SA5150-650**

Solteria Optical Multi-Sensor Detectors



The Soteria Multi-Sensor Detector uses advanced optical sensing technology, PureLight, to detect smoke particles entering the chamber and is fitted with two thermistors for detecting heat. It easily discriminates against false alarm stimuli and is a great environmentally friendly alternative to ionisation detectors.

COMING SOON

Order # • **SA5150-750**

[Two Wire Addressable Duct Detectors](#)



SL-DAA Series Smoke Duct Detector is the latest analog addressable innovation for early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial, and Residential applications. The unit is designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete systems may be shut down via the Harding network fire control panel in the event of smoke detection.

DL-DAA duct detectors connect to the SLC loop monitored and controlled by the Harding Analog Loop Module (ALM3-IP). The SL-DAA is addressed through the use of the patented XPERT™ programming card.

Order # • **SL-DAA-P** • **SL-DAA-N**

Four Wire Addressable Duct Detectors



SL-DA4R Series Smoke Duct Detector is the latest analog addressable innovation for early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial, Industrial, and Residential applications. The unit is designed to prevent the recirculation or spread of smoke by air handling systems, fans, and blowers. Complete building systems may be controlled by the SL-DA4R built in relay and/or via the Harding network fire control panel in the event of smoke detection

The SL-DA4R connects to the SLC loop monitored and controlled by the Harding Analog Loop Module (ALM3-IP). The SL-DA4R is addressed through the use of the patented XPERT™ programming card.

Order #

- SL-DA4R-P
- SL-DA4N-N

Carbon Monoxide Duct Detector Kit with FAST TUBES



The SL-701 Duct Carbon Monoxide Detector Kit provides early detection of carbon monoxide in air moving through the HVAC duct supply, return, or both in commercial, industrial, or residential applications. Carbon Monoxide Duct Detector to be used in conjunction with CO spot detectors.

The SL-701 is fitted with a UL Listed electrochemical sensor that notifies at for distinct levels of carbon monoxide PPM published hazardous by both OSHA and the NFPA, and has a life of approximately six years in normal environmental conditions. The specific alarm condition met is annunciated at the detector, and historical data can be retrieved from the unit to aid in resolving the source of contamination.

Order #

- **SL-70KIT**

XP95A Line Isolator



The 55000-750 and the 45681-321 utilize a patented technique to recognize a wiring short circuit by monitoring a drop in voltage. In standby operation the isolator provides a two-way power and data pathway with low resistance of 0.4 ± 0.1 ohms in either direction. If the incoming or outgoing supply voltage falls below $15 \text{ V} \pm 0.5 \text{ V}$, this is detected and the line isolator from the remainder of the SLC isolates the short circuit. The yellow LED on the isolator will then flash at 3 second intervals. The isolator continues to monitor voltage, and when the short circuit is repaired the isolator automatically reverts to its low resistance condition

Order #

- **55000-750APO**

Isolating Base



The Isolating Base senses and isolates short circuit faults on system loops and spurs. The base is loop-powered, polarity sensitive and accepts the XPERT card to set the address of the associated device. In short-circuit conditions the integral yellow LED is illuminated. The detector associated with the base remains active under short-circuit conditions. Power and signals to the affected section are restored automatically when the fault is cleared.

Order #

- 45681-284APO
- BAS 2005

XP95A 4-inch Mounting Base



All detectors in the XP95A product line fit the XP95A Mounting Base which is a low insertion force base with stainless steel contacts for the detector terminals. XPERT Cards are supplied with all bases.

Order # • 45681-210APO • BAS 2001

E-Z Fit 6-Inch Base



The E-Z Fit Base is a low profile 6" mounting base for XP95A detectors.

Order # • 45681-250USA • BAS 2004

Multi-Flex Analog Addressable Detector Sounder Base



The Multi-Flex analog addressable smoke detector sounder bases provide today's most advanced functionality and performance, delivering flexible notification capabilities for Apollo analog-addressable systems. The bases offer selectable steady or temporal pattern output and selectable high or low volume levels. The three-pulse temporal pattern is required by NFPA 72 for fire alarm evacuation for commercial and residential applications.

Order # • MB-SDRT-AA

XPERT 8 Base



All detectors in the Soteria®, Discovery® and XP95® range fit into the XPERT 8 Intelligent Mounting Base. The base has a wide interior diameter for ease of access to cables and terminals. The 'E-Z Fit' feature allows you to fit the base screws, place the XPERT 8 Intelligent Mounting Base over the screws, slide it into place and tighten the screws. The detector requires a clockwise rotation into the base for fitting. Additionally, the detector can be locked into the base for increased security, by a grubscrew using a 1.5mm hexagonal driver. The XPERT 8 card, Part Number 38532-064, supplied with the base, has pre-punched pips to remove to set the address

Order # • SA5000-200

Order # • **45681-525 (Yellow LED)** • **45681-526 (Red LED)**

Order #

Order # • 45681-800

Order #	Fireray One	Fireray 5000	Fireray 300	Fireray 50R/100R	Fireray 3000 Exd
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Talentum Flame Detector



Talentum® is perfect for environments and industries where steam, smoke and dust are commonplace. Using infra-red (IR) sensing technology flames can be detected through such elements as dust, steam and smoke; they are also immune to the effects of wind or draughts of air. With the addition of an ultra-violet (UV) sensor a flame detector becomes highly immune to false signals such as sunlight. The optical sensors within the detector receive the IR and/or UV radiation emitted by the flames. The processor within the detector analyses the optical sensor signal waveforms and determines if they represent flames and if so accepts them. If the signals do not match the internal algorithms for flames then they are considered to be false sources and rejected.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

Conventional Detectors

Conventional Photoelectric Smoke Detector



The SOC-24V is a reliable, high quality Photoelectric Smoke Detector. It can be used in all open areas where Photoelectric Smoke Detectors are required, including in-duct applications. The computer-designed smoke chamber makes the SOC-24V well suited for detecting smoldering fires as well as fast-flaming fires.

Order # • SOC-24V

Fixed Temperature Heat Detector



The DFE 135/190 fixed temperature heat detector is suited for installation where high heat output fires are expected or in areas where ambient conditions would not allow use of other detection methods.

Order # • 0200-02570 (DFE-135) • 0200-02600 (DFE-190)

Rate of Rise Heat Detector



The DCD-135/-190 fixed temperature/rate-of-rise heat detector are suited for installation where high heat output fires are expected or in areas where ambient conditions would not allow use of other detection methods.

The DCD-135/-190 fixed temperature/rate-of-rise heat detectors are suited to detect in the presence of slow or fast rising temperatures due to burning combustibles. The construction of these models incorporates a thermistor heat element protected from damage by the built-in, durable plastic guard.

Order # • 0200-02564 (DCD-135) • 0200-02566 (DCD-190)

Conventional Detector Base



The NS6 base is an electronic free 6" base featuring a plastic tamper-lock lug. Each base is equipped with a resistor. Please refer to the chart (left) for additional specifications. The NS4 base is a 4" version of the NS6 base.

Order #

• NS4

• NS6

TITANUS MICRO-SENS



The pint-sized TITANUS MICRO·SENS® provides a wealth of options. It can be configured to use a single primary alarm or a two-stage system (pre-alarm and main alarm). Options include a bar graph displaying smoke density levels and a parallel display connection. Thanks to PIPE·GUARD, HPLS light technology and LOGIC·SENS, this air sampling smoke detection system is both highly sensitive and secure against false alarms. The Titanus MICRO-SENS can provide individual smoke indication for up to 5 separate enclosures or rooms using one straight pipe run.

Order #

Please Contact your local distributor or visit www.harding-tech.com for ordering options

TITANUS PRO-SENS



The pint-sized TITANUS PRO·SENS® aspirating smoke detection system combines High-Power-Light-Source (HPLS) technology with patented LOGIC·SENSTM fire pattern recognition algorithms and a large portfolio of custom accessories to ensure that each system will maintain high levels of sensitivity and false alarm immunity even in challenging environments. Its modular design facilitates cost effective solutions for a wide range of specialized requirements.

Order #

Please Contact your local distributor or visit www.harding-tech.com for ordering options

TITANUS TOP-SENS



ITANUS TOP·SENS® aspirating smoke detection system combines High-Power-Light-Source (HPLS) technology with patented LOGIC·SENSTM fire pattern recognition algorithms and a large portfolio of custom accessories to ensure that each system will maintain high levels of sensitivity and false alarm immunity even in challenging environments. Its modular design facilitates cost effective solutions for a wide range of specialized requirements. Optional second plug-in detector module allows one aspirating unit to economically monitor two separate areas or alternatively to be used for cross-zoning alarm verification.

Order #

Please Contact your local distributor or visit www.harding-tech.com for ordering options

Manual Stations

[Conventional Pull Station](#)



The S10 Series (conventional) are single contact, key-reset manual pull stations that are designed to meet the requirements of many applications. They are constructed from a rugged, but lightweight, die-cast metal alloy for increased performance and longevity. S10 pull stations are available in single action (PULL lever) or dual action (PUSH bar and PULL lever) models, and are available in English or bilingual (English/French) models. The stations are provided with one normally open contact connected to a terminal strip that can accommodate wiring from #22 to #12 AWG. Contacts are gold plated to minimize risk of corrosion. All models have been tested by UL and found in compliance with the pull force requirements of the Americans with Disabilities Act (ADA).

Order #	MAN 1001	MAN 1002	MAN 1011	MAN 1012	MAN 1021	MAN 1022
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[Addressable Pull Station](#)



The S21 Series (addressable) are single contact, key-reset manual pull stations that are designed to meet the requirements of many applications. They are constructed from a rugged, but lightweight, die-cast metal alloy for increased performance and longevity. S21 pull stations are available in single action (PULL lever) or dual action (PUSH bar and PULL lever) models, and are available in English or bilingual (English/French) models. The stations are provided with one normally open contact connected to a terminal strip that can accommodate wiring from #22 to #12 AWG. Contacts are gold plated to minimize risk of corrosion. All models have been tested by UL and found in compliance with the pull force requirements of the Americans with Disabilities Act (ADA).

Order #	MAN 2101	MAN 2102	MAN 2111	MAN 2112	MAN 2121	MAN 2122
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Notification Devices

[ELUXA Horns](#)



The Eluxa is feature rich with six candela settings and three horn patterns: Continuous, T3, T3/T4 in a single device, which not only reduces customers' inventory but also is an industry first by combining both fire alarm and carbon monoxide (CO) over the same two wires. Activation is accomplished through digital communication. To reduce installation time, Eluxa includes pre-wire/ pre-test via a rigid mounting plate with hinged feature and no tools needed for setting changes.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

[ELUXA Horn Strobes](#)



The Eluxa's high energy efficient technology leads the industry in lowest current draw for a combined high and low candela device, which reduces overall power consumption. As the first notification appliances in the industry to utilize LED as the light source, this breakthrough optical design, resulting in best-in-class efficiency, enables material and system cost savings, allowing for a greater number of appliances on the notification appliance circuit and fewer power supplies. This reduces installation and operating costs. All strobe models feature six candela settings: 15, 30, 75, 110, 135, 185 cd on wall models and 15, 30, 75, 110, 150, 177 cd on ceiling models.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

[ELUXA Strobes](#)



The Eluxa strobes meet the 20 millisecond light pulse duration requirements of the 2016 edition of NFPA 72. By meeting this latest requirement, xenon and LED devices can now be in the same field of view.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

[ELUXA Speaker Strobe](#)



The Eluxa speakers (ELSPK/ELSPKC) provide high fidelity sound output for indoor, wall- and ceiling-mount applications. With the widest frequency response range (300 to 8000 Hz) in the industry, the Eluxa speakers feature leading intelligibility with crisp, clear voice messages, ideal for emergency communications, mass notification, and voice evacuation.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

[ELUXA High Fidelity Speaker Strobes and Speakers](#)



The Eluxa speakers feature high fidelity sound output, and speaker strobe models include an advanced power saving LED technology with a full range of candela settings for indoor wall and ceiling-mount applications. With the widest frequency response range (300 to 8000 Hz) in the industry, the Eluxa ELSPK and ELSPST feature leading intelligibility with crisp, clear voice messages and tone signaling, ideal for emergency communications, mass notification, voice evacuation, and fire alarm.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

[ELUXA Low Frequency Sounder and Sounder Strobe](#)



The Eluxa low frequency sounders (ELFHN) and sounder strobes (ELFHS) is designed to meet the National Fire Protection Association (NFPA 72) low frequency sounder requirements for sleeping rooms for both fire alarm and carbon monoxide (CO) signaling. In a single device, the Eluxa low frequency sounders features both low and high candela settings and alarm signals for dual applications - T3 (fire) and T4 (CO) tones.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

[Series MB Motor Bell](#)



These DC vibrating Series MB Motor Bells are offered in 6" and 10" shell sizes in both 12 and 24 VDC models. The RSSP Sync/Non-Sync retrofit plates are used in conjunction with the Series MB Motor Bell when combination appliances are required. The RSSP retrofit plates are available with either Multi-Candela or single candela strobes and easily mount to a 4" square or SBL-2 backbox.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

[Series HS/HS4 Horn and Horn Strobe](#)



HS Series Horn and Horn Strobes include a selectable continuous horn tone or temporal pattern (Code 3) with three selectable dBA settings for each tone. Strobe options include the Wheelock patented MCW Multi-Candela strobe with field selectable candela settings of 15/30/75/110cd or 135/185cd for wall mount and 15/30/75/95cd or 115/177cd for ceiling mount.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

Series AMT Horn and Horn Strobe



The AMT multi toner horns and horn strobes provide the industry with a UL Standard 1971 and UL Standard 464 combination audible/visual device that simplifies installation and offers three (3) distinct prioritized audible signals from three isolated inputs. Priority (1) will override all other commands upon activation.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

Series ET Speaker and Speaker Strobe



The Series ET Speakers and Speaker Strobes are designed to meet the critical needs of the life safety industry for effective emergency voice communications, tone signaling and visible signaling to alert the hearing impaired.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

Series MT Strobe and Multi-Tone Electronic Appliances



The Series MT and MT Strobe Multi-tone electronic appliances offer a choice of eight (8) nationally and internationally recognized alerting sounds: Horn, Bell, March, Time Horn, Code-3 Tone, Code-3 Horn, Slow Whoop, Siren or Hi/Lo Tone. The Code-3 Horn and tone patterns are engineered to comply with NFPA/ANSI Temporal Pattern specifications without requiring additional equipment. With MT and MT Strobe appliances, one alarm appliance meets most of your signaling needs. The MT strobes can be synchronized using the Wheelock DSM Sync Modules, or other manufacturers panel incorporating the Wheelock Sync Protocol. The MT Strobes are designed for ADA applications while meeting or exceeding the latest requirements of NFPA 72, ANSI 117.1, UFC and UL Standard 1971 as well as meeting ADA requirements concerning photosensitive epilepsy.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

Series LED/LED3 Notification Devices



The Series LED3 horns, horn strobes, strobes, speakers and speaker strobes are aesthetically pleasing to building owners as the low-profile design does not detract from the interior decor. Installers will benefit from its comprehensive feature list, including lowest current draw, no tools needed for setting changes, and convenient mounting options for both new and retrofit construction.

Order # Please Contact your local distributor or visit www.harding-tech.com for ordering options

[XP95A Open Area Sounder Notification Device](#)



Since the Open Area Sounder is intended for use in open areas it is possible for more than one device to be audible at any given point in the building. For this reason, the operation of all may be synchronized by the control panel. A nominal sound output as per the table overleaf is achieved at the current consumption of 8.2 mA. Many control panels will be able to drive up to 20 sounders per loop on average. The Open Area Sounder is powered directly from the loop and needs no external power supply. It operates at 17V-28V dc and is polarity sensitive.

Order # • **55000-41** • **55000-42** • **58000-11** • **58000-12**

Voice Systems

[Voice Master Panel and Distributed Panel](#)



The Voice Master and Distributed Conventional Audio Systems provide the tools to meet the needs of voice evacuation requirements where multi channel or fire phone is not needed. From small 25W single circuit applications to two-thousand-watt multi circuit systems, The Voice Master and Distributed Conventional Audio Systems offers the solution to your needs. Up to 256 Distributed Panels can be connected to the Master Panel, each providing 4 class B speaker zones (expandable to 8 class B or 4 Class A). Each Distributed panel can also be configured to support up to 16 optional fire phone circuits. With a full complement of speaker/strobes, fire phone stations, and fire phone jacks, The Voice Master and Distributed Panels HMX Series provides an effective emergency relocation and paging system.

Order # **Please Contact your local distributor or visit www.harding-tech.com for ordering options**

[Distributed Audio Power Booster](#)



The DAPB-100 is a distributed audio power booster that provides an additional 100 watts of audio output power to any new or existing voice evacuation system. The DAPB-100 is designed to work with any manufacturer's voice evacuation control panel including the VECP series. Each DAPB-100 also provides an additional four Class A or Class B 25 Vrms supervised speaker circuits with an option for 70 Vrms with addition of a supplemental transformer.

Order # • **DAPB-100** • **SIG-3-REL** • **SIG-70V-XFMR**

[Voice Evacuation Control Panel](#)



The VECP Series control panels are designed for the upgrade of existing fire alarm systems to add voice evacuation capability without replacing the FACP, as well as for new system.

Order # • **VECP-25** • **VCEP-50** • **DVS-RM/P** • **DVS-RM/B**

Annunciators

[Remote Display Annunciator Cabinet](#)



The RA-220 provides the cabinetry to mount a Remote Display that can be used as another point of control or as an annunciator. A typical application would be to mount a Remote Display in a central location for system control.

Order # RA-220

Miscellaneous

[City Tie Disconnect Panel](#)



The City Tie Disconnect Panel combines three separate switch assemblies into one complete panel to simplify installation and wiring near the Fire Alarm Panel. The City Tie Disconnect Switch is used to disconnect the Fire Alarm Panel from reporting any Alarm or Trouble condition to the city in order to test and maintain the Fire Alarm System.

Order # • **CBC-DC-KIT**

[LTE Universal Cellular Alarm Communicator](#)



The 4GM3 is designed as a summary event communicator. Installation of the 4GM3 is remarkably easy with the use of a secure website and unit switch settings. Activation is instant and is available using the dealer website or by a live operator. The 4GM3 includes the latest LTE technology for the best performance and longest life cycle. Compatible with 3G and LTE cellular networks, the 4GM3 also operates on redundant networks for maximum reliability.

Order # • **4GM3-V** • **4GM3-A**

[Series DH Fire Door Holder](#)



The DH series fire door holders are constructed of the finest materials and workmanship available. The door holder is made of durable die-cast metal. Some features include standard dual voltage dc or ac inputs of 12 & 24V, 24 & 120V and 24 & 220V models. While reducing stocking requirements, the Series DH Fire Door Holder draws a mere .020 mA @ 24VDC lowering overall job costs.

Order # • **Series DH Fire Door Holder**