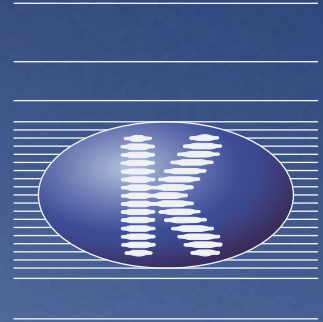


Marine Product Guide



Kentec Electronics Ltd.



Fully Compatible with
Apollo Marine Detectors





BS-EN54-2
BS-EN54-4
KM 73505



Marine & Offshore Single or Two Loop Analogue Addressable Control Panel



Features

- 16 zonal LED indicators
- 2 programmable sounder circuits
- 5 programmable inputs
- 3 programmable relays
- 3A power supply
- Large graphic display
- Real time clock
- Powerful, network wide cause and effects
- Sensitivity adjustment and Drift Compensation
- Apollo protocol
- Same look and feel as Syncro range
- Stores 1000 last events in event log
- Compact, stylish enclosure
- Installer friendly, removable equipmer chassis
- Different language and character set variants available
- Fully EN54-2 and EN54-4 compliant

Product Overview

- The Marine & Offshore Syncro ASM is a versatile range of open protocol fire alarm control panels compatible with existing Syncro fire alarm panel technology.
- Hosting up to 126 Apollo fire detection devices and modules per loop, Syncro ASM uses leading edge microprocessor based electronics to provide a flexible control system with high reliability and integrity.
- Suitable for all small to medium sized vessels, Syncro ASM control panels can be expanded and networked to become part of much larger systems if the need arises, therefore providing a future proof solution for any vessel.
- With its large graphical display and ergonomic button and indicator layout, the Syncro ASM control panel is simple and straightforward to understand for installers, commissioning engineers and end users alike.

Config. Features

- Comprehensive day/night mode facility
- Programmable one touch test mode
- Powerful and versatile cause & effect programming
- Cause & effect wizard including:
 - Cause & effect action
 - Disablement configuration
 - Test mode configuration



Model No. MA80161M2



Model No. MA80161F2

Specifications

Panels

Product Code	Protocol	Zones	Loops	Printer	Description	Size (mm)
MA80161M2	Apollo	16	1	No	Surface	385 x 310 x 90
MA80161F2	Apollo	16	1	No	Flush	385 x 310 x 90
MA80162M2	Apollo	16	2		Surface	385 x 310 x 90
MA80162F2	Apollo	16	2		Flush	385 x 310 x 90

Technical

Construction	- 1.2mm sheet steel
Enclosure finish	- BS 00 A 05 light grey textured
Mains voltage supply	- 230V AC 50 or 60 Hz.
Display	- 8 lines of 40 characters graphic LCD
Mains supply fuse	- 1.6A 250V
Power supply DC rating	- 24V 3 Amps
Aux 24V supply	Fused at 500 milliamps
Battery (24 hour standby)	- 7Ah 12V (2 per panel) (non-networked)
Fault contact rating	- 30V DC 1 Amp
Fire contact rating	- 30V DC 1 Amp
Alarm contact rating	- 30V DC 1 Amp
Sounder output rating	- Fused at 1 Amp each
Detection loop	- 400 milliamp output
Detector protocol	- Apollo Discovery
Printer port	- Serial RS232
Serial expansion port	- Serial RS485 (Compatible with all Syncro I/O modules)
PC port	- Serial RS232
Network connection	- RS485 - Up to 64 panels via fully fault tolerant optional network card
Remote Silence input (SIL)	- Switched -ve
Remote fault input (FLT)	- Switched -ve
Remote reset input (RES)	- Switched -ve
Remote alert input (INT)	- Switched -ve
Remote evacuate input (CNT)	- Switched -ve
Download lead	- Standard S187, X187LS economy
Configuration	- Via Loop Explorer PC utility



Marine & Offshore Local LCD Control Panel Repeater

Product Overview

- Designed and manufactured to the highest standards in a quality controlled environment the Syncro VIEW Marine fire alarm annunciator provides a simple and convenient method of extending the controls and indications of the Syncro ASM fire alarm control panel to other locations.
- The large, graphic liquid crystal display and high brightness LED indicators duplicate the indications on the Syncro ASM fire alarm control panel at up to 15 additional locations via a simple, two-wire serial data connection.
- The Syncro VIEW Marine is available in either a 24V DC powered option (which can be powered via an additional 2 cores from the Syncro ASM control panel, a maximum of 4 VIEW Marine Repeater Panels in this combination) or up to 15 VIEW Marine Repeater Panels if powered local from an ancillary 24V DC supply or a 230V powered option with local battery back up.
- Syncro VIEW Marine is housed in a small enclosure which is styled similarly to the Syncro ASM control panel and is ideal for installations where a large fire control panel would be detrimental to décor or where space is at a premium such as the Control Bridge or Helm.
- Up to 15 Syncro VIEW Marine annunciators can be connected to each control panel on the Syncro ASM network making VIEW Marine ideal where multiple points of indication and/or control are required in such as places as Engine Rooms, Staff Quarters, Living Spaces or Control Area's.

Features

- Up to 15 annunciators can be connected to each Syncro ASM fire control panel.
- Large liquid crystal display (240 x 64 pixels)
- High brightness LED indications
- Internal sounder
- Replicates all Syncro ASM panel controls
- Simple, two-wire serial connection
- Small, Syncro style enclosure
- Removable electronics for easy installation
- 24V DC or 230V AC power options
- Low power consumption
- Multi language options
- Connection monitored by Syncro ASM control panel



Model No. K67750M1



Model No. MK67001AM1

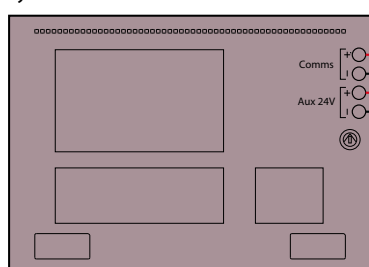
Equipment

Product Code	Description	PSU	Size (mm)
MK67000M1	Syncro View Marine repeater panel	-	330 x 255 x 90
MK67750M1	Syncro View Marine repeater panel	750mA	330 x 255 x 90
MK67001M1	Syncro View Marine repeater panel c/w enable keyswitch	-	330 x 255 x 90
MK67751M1	Syncro View Marine repeater panel c/w enable keyswitch	750mA	330 x 255 x 90
MK67000AM1	Syncro View Marine repeater panel (24v Model Flat Plate Fascia, Space saving Model)	-	see drawing below
MK67001AM1	Syncro View Marine repeater panel (c/w enable keyswitch - 24v Model Flat Plate Fascia, Space saving Model)	-	see drawing below

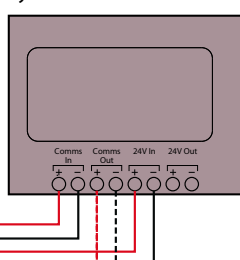
Semi-flush versions are available to order

Specifications

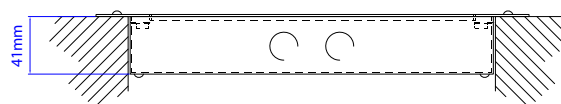
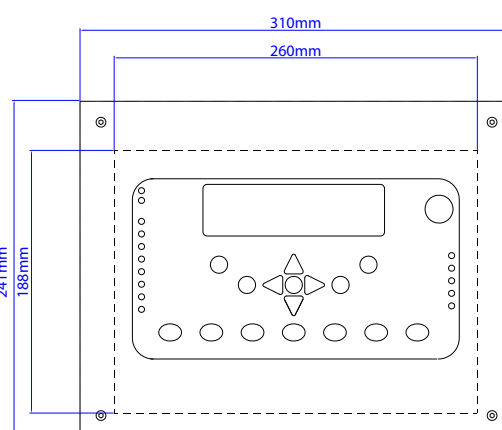
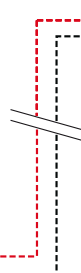
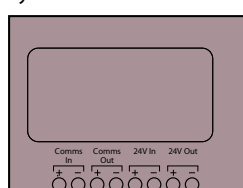
Syncro Control Panel



Syncro View #1



Syncro View #15



Technical

Construction	- 1.2mm Mild steel
Cable entry	- 5 x 20mm knockouts in top of box and 5 in rear
Finish	- Epoxy powder coated
Colour - lid & box	- BS 00 A 05 grey - fine texture
Colour - controls plate & labels	- Ral 7047 light grey - satin
Display	- 8 lines of 40 characters graphic LCD
Mains supply (Mains models only)	- 230V AC +10% - 15% (20 Watts maximum)
24V supply (24V DC models only)	- 21 to 30V DC
Mains supply fuse	- 2 Amp, 20mm
Power supply rating	- 28V 750mA total (including battery charging)
Maximum ripple current	- 200 millivolts
Battery type (Yuasa NP)	- Two 12 Volt 1.9Ah sealed lead acid in series
Battery charge voltage	- 27.6VDC nominal
Battery charge current	- 200mA maximum
Battery fuse	- 200mA, 20mm, glass
Maximum current draw from batteries	- 95mA
Quiescent current of panel in mains fail	- 0.03 Amps
Serial data connection	- 2 core RS485 (Up to 1200 metres total cable length)
Maximum terminal capacity	- 2.5mm ²

Analogue Marine Devices



Analogue Marine Ionisation Smoke Detector

The Analogue Marine Ionisation Detector uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chamber and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast-burning, flaming fires
- Designed to operate in a variety of environments
- Remote test feature



Analogue Marine Heat Detector

The Analogue Marine Heat Detector, distinguishable by the low airflow resistant case, uses a single thermistor to sense the air temperature around the detector.

- Ideal in environments that are dirty or smoky under normal conditions
- Well suited for warehouses, loading bays and car parks
- Unaffected by wind or atmospheric pressure
- Remote test feature



Analogue Marine Multisensor Detector

The Analogue Marine Multisensor detector comprises optical smoke and thermistor temperature sensors whose outputs are combined to give the final analogue value. As a result, the multisensor is useful over a wide range of applications and is highly immune to false alarms.

- Ideal for a wide range of applications
- Well suited for environments such as hotel bedrooms
- Unaffected by wind or atmospheric pressure
- Well suited for sensitive environments
- Remote test feature



Analogue Marine Optical Smoke Detector

The Analogue Marine Optical Smoke Detector works using the light scatter principle and is ideal for applications where slow-burning or smouldering fires are likely.

- Responds well to slow-burning, smouldering fires
- Well suited for bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Remote test feature



Analogue Marine Mounting Base

All detectors in the Analogue Marine range are for use with the Marine Mounting Base. The Mounting Base is a low insertion force base with stainless steel contacts for the detector terminals. XPERT cards are supplied with all bases.

- Marine Approved
- XPERT addressing
- One way fit
- Locking feature to prevent unauthorised removal



Analogue Marine Manual Call Point

The Analogue Marine Manual Call Point has been approved for use in indoor marine applications such as cruise liners. When operated, the manual call point interrupts the polling cycle for a fast response.

- Marine Approved
- Flashing LED option
- Plug and play terminal connections for fast wiring
- Allow wiring continuity testing before fitting
- Reports an alarm in under 0.2 seconds
- Resettable element



Analogue Marine Waterproof Manual Call Point

The Analogue Marine Waterproof Manual Call Point has been designed for use outdoors and in places where moisture can occur. It is compliant with EN54-11 and can be used with the Analogue Marine range.

- Marine Approved
- Plug and play terminal connections for fast wiring
- Allow wiring continuity testing before fitting
- Resettable element
- IP 67



Analogue Marine Isolator

The Analogue Marine Isolator is placed at intervals on the loop and ensures that, in the case of a short circuit, only the section between the isolators will be affected. When the short circuit is removed, the isolators automatically restore power in the isolated section.

- Marine Approved
- Detects wiring short circuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- The equivalent of up to 20 smoke detectors may be installed between isolators



Analogue Marine Isolator Base

The Analogue Marine Isolator Base is unique and designed to only accept the marine isolator.

- Marine Approved
- Only accepts Isolators

Marine Interfaces



Marine DIN-rail Dual Isolator

The Marine DIN-rail Dual Isolator provides two independent isolators which sense and isolate short circuits on Discovery and XP95 loops and spurs.

- Marine Approved
- Loop powered
- Polarity sensitive
- Up to 20 detectors can be installed between isolators
- Allows fully isolated spurs



Marine DIN-rail Sounder Controller (8 Amperes)

The Marine DIN-rail Sounder Controller (8 Amperes) is used to control the operation of a zone of externally powered sounders and report their status to the control panel.

- Marine Approved
- Allows sounders to be operated continuously or be pulsed, 1 second on, 1 second off
- May be synchronised when in pulsed operation
- An opto-coupled input is provided to monitor the state of the external power supply
- Sounders can be operated individually or in groups



Marine DIN-rail Switch Monitor Plus

The Marine DIN-rail Switch Monitor Plus is designed to monitor the state of one or more single pole, volt free contacts connected on a single pair of cables and to report the status to Apollo compatible analogue control equipment.

- Marine Approved
- Output for resetting a remote detector
- Four input states - 'normal', 'fault', 'pre-alarm' and 'alarm'
- Two visible LEDs
- Loop powered
- Selectable alarm delay for monitoring flow switches



Marine DIN-rail Zone Monitor

The Marine DIN-rail Zone Monitor with Isolator controls the operation of a zone of up to 20 Apollo Series 65 or Orbis fire detectors from a Discovery or XP95 loop.

- Marine Approved
- Loop powered
- Visible short circuit LED
- Built in Isolator

Specialist Detectors - Flame Detectors*



Intelligent Dual IR Flame Detector

The Intelligent Dual Infra-Red (IR²) Flame Detector is designed for use in areas where flaming fires may be expected. The detector has two sensors which respond to different IR wavelengths to discriminate between flames and spurious sources of radiation. Applications include aircraft hangars, coal handling and paper manufacturing plants and woodworking environments.

- Sensitive to flickering IR radiation
- Detects through films of oil, dust, water and ice
- Responds to flickering flames, including those invisible to the naked eye
- Compatible with Discovery and XP95 protocols
- Remote optical self-test function
- 90° field of view
- Up to 40m coverage



Intelligent Triple IR Flame Detector

The Intelligent Triple IR Flame Detector (IR³) is designed to protect areas where open flaming fires may be expected. It is sensitive to low-frequency, flickering infra-red radiation emitted by flames during combustion.

- Loop-powered
- Sensitive to flickering IR radiation
- Detects through films of oil, dust, water and ice
- Responds to flickering flames, including those invisible to the naked eye
- False alarms due to lighting or flickering sunlight are minimised
- Compatible with Discovery and XP95 protocols



Flame Detector Bracket

The Flame Detector Bracket is an optional accessory for the Intelligent Flame Detectors. It is a stainless steel mounting bracket adjustable in two axis. Not suitable for Base Mounted Flame Detectors

- Allows flame detector to be moved to desired position



Flame Detector Weather Shield

The Flame Detector Weather Shield protects the device from inclement conditions.

- Protects against water ingress
- Protects sensor from direct sunlight

*Marine Approval Pending



Intelligent Base Mounted UV Flame Detector

The Intelligent Base Mounted UV Flame Detector is designed to protect internal areas where open fires may be expected. The detector has a single UV sensor with a narrow spectral response in order to discriminate between flames and most spurious sources of radiation.

- Responds to stationary flames with no flicker
- Sensitive to UV radiation emitted by flames during combustion
- Compact flame detector which can fit into Discovery or XP95 bases
- Loop-powered



Intelligent Base Mounted UV IR² Flame Detector

The Intelligent Base Mounted UV IR² Flame Detector is designed to protect areas where open flaming fires may be expected. The detector has a UV and dual IR sensors responding to different wavelengths in order to discriminate between flames and spurious sources of radiation.

- Responds to stationary flames with no flicker
- Sensitive to UV and low-frequency flickering IR radiation emitted by flames during combustion
- Compact flame detector which can fit into Discovery or XP95 bases
- Loop-powered
- False alarms due to electrical discharges from lightning or arc welding and flickering sunlight are minimised



Intelligent Base Mounted IR³ Flame Detector

The Intelligent Base Mounted IR³ Flame Detector is designed to protect areas where open flaming fires may be expected. The detector has three IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation.

- Responds to stationary flames with no flicker
- Sensitive to low-frequency flickering IR radiation emitted by flames during combustion.
- Compact flame detector which can fit into Discovery or XP95 bases
- Loop-powered
- False alarms due to factors such as flickering sunlight are avoided by a combination of filters and signal processing techniques.

*Marine Approval Pending

Conventional Marine Devices



Conventional Marine Optical Smoke Detector

The Conventional Marine Optical Smoke Detector operates on the well established light scatter principle. However, the sensing technology is radically different in design from previous optical detectors and significantly reduces false alarms.

- Marine Approved
- Responds well to slow-burning, smouldering fires
- Performs well in black and white smoke
- Extra confirmation of smoke before alarm signal is given
- Reduced incidence of false alarms
- Sensing chamber keeps out dust and other airborne contaminants
- Operates over a broad range of voltages at extremes of temperature



Conventional Marine Heat Detector

The Conventional Marine Heat Detector uses a single thermistor to sense the air temperature around the detector. There are twelve heat detectors in the Conventional Marine range designed to suit a wide variety of operating conditions.

- Marine Approved
- Can be used for applications where smoke detectors are unsuitable
- Ideal in environments that are dirty or smoky under normal conditions
- Reduced incidence of false alarms
- Increased reliability of detection



Conventional Marine Multisensor Detector

The Conventional Marine Multisensor Detector benefits from the same false alarm reduction technology as the optical detector. It is a thermally enhanced smoke detector and so will not give an alarm from heat alone.

- Marine Approved
- Responds well to fast-burning, flaming fires
- Reduced incidence of false alarms
- Increased reliability of detection
- Sensing chamber keeps out dust and other airborne contaminants
- Operates over a broad range of voltages at extremes of temperature



Conventional Marine TimeSaver Base®

The Conventional Marine TimeSaver Base® is a completely new design that provides installers with an open working area with fixing holes shaped to allow a simple mounting procedure.

- Marine Approved
- Grouped terminals to make wiring easy
- Two fixing centres
- LED alignment mark
- Cable stripping guide
- Detector locking mechanism



Conventional Marine Relay Base

The Conventional Marine Relay Base incorporates a single-pole voltage-free change over contact for switching ancillary equipment. When the detector changes to the alarm state, the relay is energised, causing the contact to change state. The contact will remain in this condition until the detector is reset.

- Marine Approved
- Grouped terminals to make wiring easy
- Two fixing centres
- LED alignment mark
- Cable stripping guide
- Continuity link for voltage testing of zone wiring prior to commissioning
- Detector locking mechanism
- Capable of switching up to 30V at 1A

Marine Accessories



Universal Conduit Box

The Conduit Box is a versatile accessory for surface mounting Apollo bases. The box has knockouts to accept PG16 or M20 cable glands, conduit or mini trunking. Self tapping screws are included to fit the detector base to the Conduit Box.

- Marine Approved
- Easy to install
- Aesthetically pleasing



Backplate

The Backplate provides a high degree of protection against the ingress of water or dust into the back of the detector mounted directly onto a mounting box. When the backplate is used with an XP95 device, the number tab of the XPERT card must be snapped off and placed in one of the knockout slots provided in the backplate.

- Marine Approved
- Protects against water ingress
- Improved performance
- Fits Discovery, XP95, Orbis, Series 65 and AlarmSense bases



Deckhead Mounting Box

The Deckhead Mounting Box gives extra protection to devices to be fitted in areas where there is the possibility of moisture or condensation ingressing through the rear of the base. This new version is suitable for a wider range of detector bases as well as Apollo's AV bases.

- Marine Approved
- Protects against water ingress
- Improved performance
- Available in polycarbonate
- Polycarbonate Deckhead Mounting Box also fits Apollo Audio Visual bases

Sounders and Base Sounders



Intelligent Open-Area Sounder

The Intelligent Open-Area Sounder has been designed for use in open areas and can be connected to any Discovery or XP95 system.

- Self-test fault monitoring
- Choice of tones
- Group addressing and synchronisation of alarm
- Weatherproof IP65
- Comes with Isolating Base as standard
- Loop powered
- Output is 100 dB(A) at 90°
- Ceiling Mounted



Intelligent 100dB(A) Open-Area Sounder

The 100dB(A) Loop-Powered Sounder is designed for use in open areas and can be connected to any Discovery or XP95 system.

- Output is 100dB(A) at 90°
- Current consumption of 5.0mA
- Can be synchronised
- Group address facility
- Loop powered
- Wall mounted



Intelligent Weatherproof 100dB(A) Open-Area Sounder

The 100dB(A) Weatherproof Sounder is designed for use in open areas and can be connected to any Discovery or XP95 system. The sounder comprises a backbox and sounder unit supplied together.

- IP 66 (immune to the affects of wind and precipitation)
- Output is 100dB(A) at 90°
- Current consumption of 5.0mA
- Can be synchronised
- Group address facility
- Loop powered
- Wall mounted
- Ceiling Mounted



XPander Sounder and Sounder Base

The XPander Sounder and Sounder Base is wireless and designed to be used with XPander detectors and manual call points only.

- Wall mounted
- Wireless
- Eliminates cable problems
- Output is between 92 and 106db(A) at 1m - dependent on tone setting



Integrated Base Sounder

The Integrated Base Sounder comprises a base sounder with integral mounting base and is for use with Discovery or XP95 ranges. It is designed for use in enclosed areas.

- Two tone ranges
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Unique acoustic self-test
- Integrated base
- Isolator option



Intelligent Base Sounder

The Intelligent Base Sounder is for use with Discovery or XP95 ranges. It is a loop-powered sounder used to signal a fire alarm in enclosed areas. A Discovery or XP95 Mounting Base must be fitted to the Base Sounder, if a detector is to be fitted.

- Synchronisation of continuous and pulsed tones
- Multiple address allocation via master/slave configuration
- Loop powered
- Choice of two output levels



Ancillary Base Sounder

The Ancillary Base Sounder is a local-area sounder designed for indoor use. It can be connected only to detection systems using Discovery or XP95 detectors and control panels with appropriate software.

- Guaranteed sound output of 85dB(A) at 1 metre
- Current consumption of only 3mA
- Loop powered
- Responds to signals from the associated detector - does not have an address of its own
- Adjustable volume control



Series 65 Sounder Base

The Series 65 Sounder Base is a high-efficiency conventional alarm sounder incorporating a base for the Series 65 range of detectors. It is designed so that separate detector and sounder circuits can be connected. The sounder base can be secured to a conduit box or surface mounted.

- 32 tones as standard
- Provides detection and alarm signal at one point
- Diode option



AlarmSense Sounder Base

The AlarmSense Sounder Base can only be used with AlarmSense detectors. It is fitted with electronic circuitry to monitor the presence of detectors and signals any unauthorised removal of detector heads. It is supplied with a high or low volume setting and red or white caps are available for stand-alone installation

- Detects the removal of a detector head and reports a fault
- Continues to work during unauthorised removal of detectors
- Quick and simple installation
- Provides audible signal and detection at one point
- High and low volume ranges

Beacons and Beacon Bases



Intelligent Open-Area Beacon

The Intelligent Open-Area Beacon has been developed for use in situations where there is a risk that sounders will not be heard. It is weatherproof and can be used outside.

- Self-test fault monitoring
- Weatherproof IP65
- Group addressing
- Synchronisation of alarm
- Comes with Isolating Base as standard
- Loop powered



Loop-Powered Beacon

The Loop-Powered Beacon is a local-area beacon designed for indoor use. The beacon has been developed as a supplement to sounders for use in situations where there is a risk that sounders will not be heard.

- High intensity LEDs
- More reliable than xenon beacons
- Automatic LED check
- Lockable
- Wide angle of visibility
- Enables DDA compliance
- Synchronised flash
- Can be used with Discovery or XP95



Beacon Enclosure

The Beacon Enclosure is weatherproof and allows Apollo's loop-powered beacon to be used in highmoisture environments such as swimming pools and food processing areas where wash-down occurs. The enclosure is supplied with a mounting bracket to accept a Discovery or XP95 base.

- Protects against water ingress
- Allows beacon to be used outdoors
- Accepts MiniDisc Remote Indicator
- IP67



Loop-Powered Beacon Base

The Beacon Base is a loop-powered beacon combined with a standard Intelligent Mounting Base. It is used to signal a fire alarm in enclosed areas. The beacon base can be used with either a detector fitted or with a cap as a stand-alone alarm device.

- Beacon flash rate of once per second
- Synchronisation of beacon flash
- Individual and group addressing
- Unique beacon self-test
- Loop powered
- Isolator option

Sounder Beacons



Intelligent Open-Area Sounder Beacon

The Intelligent Open-Area Sounder Beacon is designed for use in open areas and can be connected to an Apollo intelligent system.

- IP65 weatherproof
- Gives two functions at one point
- Self-test fault monitoring
- Choice of tones
- Group addressing and synchronisation of alarm
- Comes with Isolating Base as standard
- Loop powered



Discovery Open-Area Sounder Beacon

The Discovery Open-Area Sounder Beacon makes full use of the Discovery protocol and has been designed for use in indoor, open-areas and outdoors. When the fire system is being commissioned a Magnetic Wand can be used to adjust and test each sounder locally.

- 15 evacuation tones + 15 secondary or alert tones
- 7 volume levels
- Software-defined group addressing with up to 16 group addresses
- Alarm switching by individual device, by group or of all devices on loop
- Independent control of sounder and beacon
- Set-up and testing of devices at point of installation
- Isolator status information



Multi-Tone Open-Area Sounder Beacon

The Multi-Tone Open-Area Sounder Beacon is designed for use in indoor open areas and can be connected to any Discovery or XP95 system. The sounder beacon complements Apollo's intelligent and integrated base sounders as well as the loop powered 100dB(A) sounder.

- Powerful LED combined with 100dB(A) sound output
- Two volume settings
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Three tone choices
- Enables DDA compliance
- Isolator option



Weatherproof Multi-Tone Open Area Sounder Beacon

The Weatherproof Multi-Tone Open Area Sounder Beacon is designed for use in outdoor open areas and can be connected to any Discovery or XP95 system. The sounder beacon complements Apollo's intelligent and integrated base sounders as well as the loop powered 100dB(A) sounder.

- IP66 (immune to the affects of wind and precipitation)
- Powerful LEDs combined with 100dB(A) sound output
- Two volume settings
- Synchronisation of 'alert' and 'evacuate' tones
- Individual and group addressing
- Three tone choices
- Enables DDA compliance
- Isolator option



XPander Sounder Beacon and Sounder Base

The XPander Sounder Beacon and Sounder Base is wireless and designed to be used with XPander detectors and manual call points only.

- Wireless
- Eliminates cable problems
- Enables DDA compliance

Sounder Beacon Bases



Sounder Beacon Base

The Sounder Beacon Base is a loop-powered sounder and beacon combined with a standard Intelligent Mounting Base. It is used to signal a fire alarm in enclosed areas. The Sounder Beacon Base can be used either with a detector fitted or with a cap for operation as a stand-alone alarm device.

- Two volume ranges 55-75dB(A) and 75-91dB(A)
- Beacon flash rate of once per second
- Synchronisation of 'alert' and 'evacuate' tones
- Synchronisation of beacon flash
- Individual and group addressing
- Unique acoustic and beacon self test
- Enables DDA compliance



AlarmSense Sounder Beacon Base

The AlarmSense Sounder Beacon Base is designed to be used with AlarmSense detectors only.

- Sounder range between 70dB(A) and 87dB(A)
- Detects the removal of a detector head and reports a fault
- Continues to work during unauthorised removal of detectors
- Quick and simple installation



Discovery Sounder Beacon Base

The Discovery Sounder Beacon Base makes full use of the Discovery protocol. For ease of commissioning a 'magnetic wand' can be used to test and adjust each sounder locally.

- Marine Approved
- It is possible to set individual control of the sounder and beacon
- Volume and tone settings can be selected from the control panel
- Tones can be used for other purposes in addition to warning of fire, ideal for schools
- Enables soft start option, ideal for hospitals and nursing homes
- Electronic bell tone