



## XPander Optical Smoke Detector and Mounting Base



### Apollo XPander Optical Smoke Detector and Mounting Base – XPA-CB-12034-APO

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

#### Key Features:

- Wireless
- Performs well in black and white smoke
- Bi-directional radio communications
- XPERT card addressing system
- Five year battery life using standard AA alkaline batteries

XPander optical detectors are recommended for use as general purpose smoke detectors for early warning of fire in most installations. XPander optical detectors operate on the well established light scatter principle. The optical design of the XPander optical detector allows it to respond to a wide spectrum of fires. The detector is calibrated so that XPander is highly reliable in detecting fires but has enhanced immunity to false alarms. The stability of the detector in terms of high reliability and low false alarm rate is further increased by the use of algorithms to decide when the detector should change to the alarm state. This removes the likelihood of a detector producing an alarm as a result of smoke from smoking materials or from another non-fire source.

## XPander A1R Heat Detector and Mounting Base



Apollo XPander A1R Heat Detector and Mounting Base - XPA-CB-11170-APO

There are two heat detectors in the XPander range designed to suit a wide variety of operating conditions. A static heat detector (CS) responds only when a fixed temperature has been reached and a Rate-of-Rise Detector (A1R) which has a fixed upper limit, but in addition, measures the rate of increase in temperature.

### Key Features:

- Wireless
- Can be used in applications where smoke detectors are unsuitable
- Ideal for environments that are dirty or smoky under natural conditions
- CS detectors are ideal for use in the environments with rapid temperature fluctuations such as boiler rooms
- Bi-directional (monitored) radio platform
- Five year battery life using standard AA alkaline batteries

## XPander CS Heat Detector and Mounting Base



There are two heat detectors in the XPander range, designed to suit a wide variety of operating conditions. A Static Heat Detector (CS) which responds only when a fixed temperature has been reached and a Rate-of-Rise Detector (A1R) which has a fixed upper limit, but in addition, measures the rate of increase in temperature.

# XPander Input/Output Single Unit



The XPander Input/Output Unit is a radio based interface and offers two monitored input circuits and two relay outputs. It can be used for controlling fire doors, fire dampers, smoke vents and other fire engineering applications.

## Key Features:

- Wireless
- Monitored switch circuit
- Voltage-free contacts
- Capable of switching up to 30V at 1A
- Five year battery life using standard AA alkaline batteries

# XPander Input/Output Dual Unit



The XPander Input/Output Unit is a radio based interface and offers two monitored input circuits and two relay outputs. It can be used for controlling fire doors, fire dampers, smoke vents and other fire engineering applications.

# Xpander Diversity Loop Interface Unit



The XPander Diversity Loop Interface Unit can monitor up to 31 XPander devices and report each device's status to an intelligent fire control panel. The XPander Diversity Interface is connected to the loop and provides communications from the control panel to the wireless devices and vice versa. Features of the XPander Diversity Loop Interface are:

- It is powered from the loop
- A maximum of five interfaces can be connected to a loop
- Up to 31 radio devices can be logged on to each interface

# XPander Surveyor Kit



The XPander Diversity Survey kit is used at the site survey stage to ascertain if a site is suitable for an XPander installation. A site survey must be carried out before XPander can be installed. The Diversity Survey Kit is compliant to BS 5839-1.

# XPander Sounder and Mounting Base (Red)



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

## Key Features:

- Wireless
- Bi-directional (monitored) radio platform
- Choice of 32 selectable tones
- Audible self-test available
- Output is between 92 and 106dB(A) at 1m - dependent on tone setting

# XPander Sounder and Mounting Base (White)



## Apollo XPander White Sounder with Mounting Base XPA-CB-14002-APO

The XPander Sounder and Sounder Base is wireless and designed to be used with XPander detectors and manual call points. XPander incorporates entirely new designs with respect to the wireless communication system. A Radio Interface is connected to the loop. It communicates with the control panel using the Apollo addressable two-wire power and communications system. The interface communicates with the detection and alarm signalling devices by means of radio waves.

The radio bases and signalling devices are addressable and use a pre-set analogue value to report via the XP95 or Discovery protocol. Apart from normal and fire the bases can send pre-set analogue values to indicate low battery, detector contaminated, detector tamper and low signal strength fault conditions.

### Key Features:

- modern styling
- loop-powered interface operating on 868MHz
- wireless addresses seen by control panel as normal addresses
- radio base with wireless circuitry and battery compartment
- chamber designed to inhibit dirt penetration and thus reduce false alarms
- automatic drift compensation with DirtAlert™ warning
- algorithms for transient alarm rejection
- FasTest™ reduces time taken to test detectors
- remote test facility
- 3-5 years battery life

## XPander Sounder Visual Indicator (Red) and Mounting Base (Red)



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

### Key Features:

- Wireless
- Bi-directional (monitored) radio platform
- Choice of 32 selectable tones
- Audible self-test available
- Output is between 92dB(A) and 106dB(A) at 1m-dependent on tone setting

## XPander Sounder Visual Indicator (Amber) and Mounting Base (White)



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

### Key Features:

- Wireless
- Bi-directional (monitored) radio platform
- Choice of 32 selectable tones
- Audible self-test available
- Output is between 92dB(A) and 106dB(A) at 1m-dependent on tone setting

# XPander Manual Call Point



The XPander Manual Call Point is compliant with EN 54-11. It is wireless and is powered by two independent packs of three AA alkaline batteries with a typical five year life.

#### Key Features:

- Wireless
- XPERT addressing
- Resettable element
- Fast response reports an alarm in under one second
- LED to indicate operation



## XPander Combined Sounder and Optical Smoke Detector



The XPander Combined Sounder and Detector is wireless and designed to provide one point detection and notification.

### Key Features:

- Wireless
- Available with a choice of XPander detectors
- Bi-directional (monitored) radio platform
- A choice of 4 tone pairs
- Certified to EN54 Part 25

## XPander Combined Sounder and A1R Heat Detector



The XPander Combined Sounder and Detector is wireless and designed to provide one point detection and notification.

## XPander Combined Sounder and CS Heat Detector



The XPander Combined Sounder and Detector is wireless and designed to provide one point detection and notification.

## XPander Sounder Visual Indicator (Red) and Optical Smoke Detector



### Apollo XPander Sounder Beacon and Optical Smoke Detector XPA-CB-14020-APO

XPander incorporates entirely new designs with respect to the wireless communication system. A Radio Interface is connected to the loop. The interface communicates with the detection and alarm signalling devices by means of radio waves. The detectors are multistate in that they report normal, pre-alarm, fire or fault states to the radio base which transmits the information to the interface.

The detectors incorporate drift compensation and report any compensation limit occurring. The radio bases and signalling devices are addressable and use a pre-set analogue value to report via the XP95 or Discovery protocol. Apart from normal and fire the bases can send pre-set analogue values to indicate low battery, detector contaminated, detector tamper and low signal strength fault conditions.

#### Key Features:

- modern styling
- loop-powered interface operating on 868MHz
- wireless addresses seen by control panel as normal addresses
- radio base with wireless circuitry and battery compartment
- chamber designed to inhibit dirt penetration and thus reduce false alarms
- automatic drift compensation with DirtAlert™ warning
- algorithms for transient alarm rejection
- FasTest™ reduces time taken to test detectors remote test facility
- 3-5 years battery life

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