

Wireless Technology

Traditionally, fire detection systems in industrial and commercial applications have used hard wired installations. These systems are generally installed at the time of construction or refurbishment, making the laying of cables less of an issue. Certain applications do not lend themselves to this approach, such as occupied buildings and heritage sites, palaces, annexes etc. – situations where wireless systems provide the ideal solution.



WIRELESS TECHNOLOGY RANGE

Find out more information at:
apollo-fire.co.uk/xpander





COMMERCIAL

It is sometimes challenging to introduce cable runs into buildings which were not designed for the modern age. It may also be that a collection of buildings, such as an open air museum, requires fire protection but is not suitable for normal wired systems. It is for commercial buildings of this kind, that XPander has been developed.

ARCHITECTURALLY SENSITIVE

XPander can be incorporated into fire detection systems in buildings where, the use of cables is either impractical or undesirable, such as palaces, stately homes and listed buildings.

ANNEXES

A collection of buildings may also require fire protection, but are not suitable for normal wired systems.

TEMPORARY STRUCTURES

XPander may also be used in sites with temporary buildings which need to be connected to a central fire control panel, but where wiring might present problems.





XPANDER®

XPander is a range of wireless products where individual detectors, call points, alarm devices and interfaces communicate through a Loop Interface with an Apollo addressable system, using radio signals.

Radio communication of the XPander range of products is bi-directional and it is certified to the radio standard, EN 54-25. The XPander Diversity Loop Interface Unit is connected to the loop in the same way as any other device, such as an input/output unit.

Every XPander product is assigned an address which is recognised by the fire control panel in the same way as any hard wired device. The XPander range benefits from the patented XPERT card technology that is also used in Discovery and XP95.

XPander can be incorporated into fire detection systems where the use of fire cables is either impractical or undesirable, including stately homes and architecturally sensitive buildings.



XPANDER RANGE

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KEY FEATURES OF XPANDER INCLUDE:

Easy to install

XPander XPERT Card addressing

Self-monitoring

Proven technology

No special fire control panel needed

868MHz radio signalling

Up to 31 devices per interface

Up to five interfaces per loop

All detectors within the XPander range
are sold with mounting bases



Optical Smoke Detector and Mounting Base



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

Wireless

Performs well in black and white smoke

Bi-directional (monitored radio platform)

XPART card addressing system

Five year battery life using standard AA alkaline batteries

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

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.

Wireless

Can be used in applications where smoke detectors are unsuitable

Ideal for environments that are dirty or smoky under normal conditions

CS detectors are ideal for use in environments with rapid temperature fluctuations such as boiler rooms

Bi-directional (monitored) radio platform

Five-year battery life using standard AA alkaline batteries

XPA-CB-11170-APO
XPander Heat detector A1R and Mounting Base (Rate-of-Rise 57°C)

XPA-CB-11171-APO
XPander Heat detector CS and Mounting Base (Static 90°C)

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.

Connects up to 31 XPander devices to an Apollo Addressable loop

Translates radio signals from XPander detectors to the fire control panel

Built-in loop isolator

Loop-powered

Diversity aerial design for improved signal integrity

XPA-IN-14050-APO
XPander Diversity Loop Interface Unit

Combined Sounder and Detector



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

Wireless

Available with a choice of XPander detectors

Bi-directional (monitored) radio platform

A choice of four tone pairs

Certified to EN 54-25

XPA-CB-14016-APO

XPander Combined Sounder and Optical Smoke Detector

XPA-CB-14017-APO

XPander Combined Sounder and Heat Detector A1R

XPA-CB-14018-APO

XPander Combined Sounder and Heat Detector CS

Combined Sounder Visual Indicator (red) and Detector



The XPander Combined Sounder Visual Indicator (red) and Detector is wireless and designed to provide a one point detection and notification.

Wireless

Available with a choice of XPander detectors

Bi-directional (monitored) radio platform

A choice of four tone pairs

Certified to EN 54-25

XPA-CB-14020-APO

XPander Combined Sounder Visual Indicator (red) and Optical Smoke Detector

XPA-CB-14021-APO

XPander Combined Sounder Visual Indicator (red) and Heat Detector A1R

XPA-CB-14022-APO

XPander Combined Sounder Visual Indicator (red) and Heat Detector CS

Combined Sounder Visual Indicator (white) and Detector



The XPander Combined Sounder Visual Indicator (white) and Detector is wireless and designed to provide a one point detection and notification.

Wireless

Available with a choice of XPander detectors

Bi-directional (monitored) radio platform

A choice of four tone pairs

Certified to EN 54-25

XPA-CB-14024-APO

XPander Combined Sounder Visual Indicator (white) and Optical Smoke Detector

XPA-CB-14025-APO

XPander Combined Sounder Visual Indicator (white) and Heat Detector A1R

XPA-CB-14026-APO

XPander Combined Sounder Visual Indicator (white) and Heat Detector CS

Accessories	
XPander Combined Sounder and Sounder Visual Indicator Bases can be purchased as accessories:	<p>XPA-WB-14036-APO XPander Combined Sounder and Detector Base</p>
	<p>XPA-WB-14037-APO XPander Combined Sounder Visual Indicator (red) and Detector Base</p>
	<p>XPA-WB-14038-APO XPander Combined Sounder Visual Indicator (white) and Detector Base</p>

Sounder and Sounder Base



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

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

XPA-CB-14001-APO
XPander Sounder and Sounder Base (red)

XPA-CB-14002-APO
XPander Sounder and Sounder Base (white)

Sounder Visual Indicator and Sounder Base



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

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

XPA-CB-14003-APO
XPander Sounder Visual Indicator (red) and Sounder Base (red)

XPA-CB-14004-APO
XPander Sounder Visual Indicator (amber) and Sounder Base (white)

XPA-CB-14005-APO
XPander Sounder Visual Indicator (white) and Sounder Base (white)

Input/Output 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.

Wireless

Monitored switch circuit

Voltage-free contacts

Capable of switching up to 30V at 1A

Five year battery life using standard AA alkaline batteries

XPA-IN-14011-APO
XPander Input/Output Single Unit

XPA-IN-14012-APO
XPander Input/Output Dual Unit



Apollo offer a series of one day training courses. See page 7 for more information.

Diversity Survey 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.

Indicates the suitability of proposed device location

XPA-TE-14075-APO
XPander Diversity Survey Kit

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.

Wireless

XPander XPERT Card addressing

Resettable element

Fast response reports an alarm in under one second

LED to indicate operation

XPA-MC-14006-APO
XPander Manual Call Point

XPander Remote Indicator Module



Designed and manufactured using the latest technology the XPander Remote Indicator Module is used to indicate the activation of an individual device or zone.

XPA-IN-14102-APO
XPander Remote Indicator Module

XPERT Card



Address card supplied with all bases. Using a coding guide, pins are removed to set the address of the inserted device.

Simplifies and speeds up installation and commissioning

Address remains the same, no matter how often detectors are replaced

Uses patented, proven technology

Flexibility to create any address

29600-413
Blank XPander XPERT Card (white)

29600-399
Blank XPander XPERT Card (red)