

# CHANNEL

SAFETY SYSTEMS

# Zerio Plus



**Wireless system**  
from Channel Safety Systems



# Zerio Plus

## Wireless system

**The Zerio Plus Radio Fire Alarm System has been designed to meet the requirements of EN54 Part 25.**

With the wireless system up to 240 devices across a maximum of 100 zones is achievable; meaning the system offers the perfect solution for small domestic buildings up to large commercial premises. The panel, although simple to use, offers sophisticated features more commonly seen in larger hard wired equivalents.

Setting the system up could not be simpler. Each device is programmed onto the system using a clearly laid out user-friendly menu structure. There is no need to connect the device with a programming lead, as the configuration is achieved by radio.

Location descriptions can be added by using a PC or simply programmed using a standard PC keyboard plugged into the panel or, for a single device, the in-built keypad.

With analogue detector functionality and complex multi-path fault tolerant signalling, the system minimizes false alarms whilst providing maximum protection for the occupants of a building. In order to increase the radio range of the system, either wired or radio booster panels can be installed at appropriate positions. During the automatic set-up the system will configure this equipment to ensure the most effective operation is achieved.

### Typical Application

The Zerio Plus wireless system is suitable for all sizes of building such as;

- Large office blocks
- Hotels
- Small shops
- Restaurants



### Product Dimensions

- Height 220mm
- Width 275mm
- Depth 85mm

PRODUCT CODE	DESCRIPTION
F/EDA-Z5008	8 zone Zerio Plus control panel (requires 12/7 battery)
F/EDA-Z5020	20 zone Zerio Plus control panel (requires 12/7 battery)
N/CH12/7	12V 7AH battery
S/BATT/EDA-Q690	Spare/replacement battery for all devices



## Tracey Park Golf Club in Bath

Tracey Park Golf Club were under pressure to install a fire alarm and detection system; being a listed building that was constantly in use, running cables would not have been an acceptable option. A wireless radio system was proposed due to the constraints and within only a few days the Zerio Plus wireless system was installed and commissioned. The EN54 Zerio Plus system met all the clients needs for a simple to use cost effective system; without the hassle of wiring and cable management detracting from the aesthetics of the building.

### Features

- EN54 Compliant
- 240 Fully Addressable Devices
- Sophisticated Cause and Effects
- In-built HMO options
- Plugable Memory Module for Back-up
- USB Keyboard to program
- Configuration Reporting via USB Memory Stick
- Intuitive Menu Structure
- 5 Access Levels
- Compatible with full range of Zerio Plus Devices
- Simple to Set-up

SPECIFICATIONS	
Maximum Number of Zones	EDA-Z5008 8 EDA-Z5020 20
Maximum Number of Devices	240 (for larger premises upto four systems can be linked together)
Max no of radio control / booster units	15 (per system)
Alarm Indicators	Twin flashing red LEDs Red individual zone indication Fire message on LCD with 60 scrolling characters of location text
Fault Indicators	Amber LEDs and LCD providing details and location of fault with 60 scrolling characters of location text
Event Log Storage	255 events maximum
Mains Supply	230V 50Hz 0.3A max (Programmable) 2 Fire -1A Changeover Contacts Fault -1A Changeover Fail Safe Contacts 12V Sounder Circuit (500mA)
No of Relays	
Operating Frequency	868MHz
Modulation	NBFM
Output Power (ERP)	10mW
Operational Temperature	0°C to +60°C
Monitored Inputs	2 x wired monitored circuit (4k7Ω end of line resistor monitored for open and short circuit, 470 Ω alarm load)
Battery	1x12V 7.0 Ah sealed lead acid
Weight	4Kg (not including battery)

## Optical Smoke Detector

The EDA-R5000 Zerio Plus Wireless Smoke Detector utilises the latest in surface mount and radio communication technology to provide a high quality, reliable wireless smoke detector and combined sounder.

The smoke chamber and internal workings of the EDA-R5000 are housed in an attractive low profile exterior.

The unit is completely self-contained and requires no external cabling and is powered by a lithium battery assembly contained within the detector housing. A mounting base is supplied with every detector which requires only two screws for installation.



### Product Dimensions

- Diameter 115mm
- Depth 45mm

PRODUCT CODE	DESCRIPTION
F/EDA-R5000	Zerio Plus optical smoke detector

SPECIFICATIONS	
Temperature Range	0°C to +60°C
Humidity	0 to 95% (no condensation)
Transmitter Frequency	868 MHz
Transmission Type	Narrow band FM
Channels	13 available
Alarm Level	Programmable at panel
Audibility	90dB at 1m
Tones	16
Audible Warning	Sounds in alarm, device re-calibration and test mode
Indications	Alarm - red solid
	Fault - red flashing
	Log-on mode - green solid
Battery	x1 EDA-Q690
Weight	200g

## Optical Smoke Detector Sounder

The EDA-R6000 Zerio Plus Wireless Smoke Detector Sounder utilises the latest in surface mount and radio communication technology to provide a high quality, reliable wireless smoke detector and combined sounder. The smoke chamber and internal workings of the EDA-R6000 are housed in an attractive low profile exterior.

The unit is completely self-contained and requires no external cabling; and is powered by a lithium battery assembly contained within the detector housing. A detector mounting base is supplied with every detector which requires only two screws for installation.



### Product Dimensions

- Diameter 115mm
- Depth 45mm

PRODUCT CODE	DESCRIPTION
F/EDA-R6000	Zerio Plus optical smoke detector complete with sounder
F/EDA-R6030	Zerio Plus optical smoke detector complete with sounder visual indicator

SPECIFICATIONS	
Temperature Range	0°C to +60°C
Humidity	0 to 95% (no condensation)
Transmitter Frequency	868 Mhz
Transmission Type	Narrow band FM
Channels	13 available
Alarm Level	Programmable at panel
Audibility	90dB at 1m
Tones	16
Audible Warning	Sounds in alarm, device re-calibration and test mode
Indications	Alarm - red solid
	Fault - red flashing
	Log-on mode - green solid
Battery	x2 EDA-Q690
Weight	310g

# Heat Sounder Detector

The EDA-D6000 & the EDA-D6030 utilise the latest in surface mount and radio communication technology to provide a high quality, reliable wireless heat detector and combined sounder indicator. The heat element and internal workings of the detectors are housed in an attractive low profile exterior.

The unit is completely self-contained and requires no external cabling; and is powered by a lithium battery assembly contained within the detector housing. A mounting base is supplied with every detector which requires only two screws for installation.

SPECIFICATIONS	
<b>Detector Type</b>	Rate of rise or fixed point 50 to 99°C
<b>Temperature Range</b>	0°C to +60°C
<b>Humidity</b>	0 to 95% (no condensation)
<b>Transmitter Frequency</b>	868 MHz
<b>Transmission Type</b>	Narrow band FM
<b>Channels</b>	13 available
<b>Alarm Level</b>	Programmable at panel
<b>Audibility</b>	90dB at 1m
<b>Tones</b>	16
<b>Audible Warning</b>	Sounds in alarm, device re-calibration and test mode
<b>Indications</b>	Alarm - red solid Fault - red flashing Log-on mode - green solid
<b>Battery</b>	x2 EDA-Q690
<b>Weight</b>	300g



### Product Dimensions

- Diameter 115mm
- Depth 65mm

PRODUCT CODE	DESCRIPTION
F/EDA-D6000	Zerio Plus heat detector complete with sounder
F/EDA-D6030	Zerio Plus heat detector complete with sounder visual indicator

# Heat Detector

The EDA-D5000 Zerio Plus Wireless Heat Detector is a heat detector designed specifically to be used with the wireless fire alarm control panels.

The EDA-D5000 Zerio Plus Wireless Heat Detector utilises the latest in surface mount and radio communication technology to provide a high quality, reliable wireless smoke detector. The heat detector element and internal workings are housed in an attractive low profile exterior.

The unit is completely self-contained and requires no external cabling; and is powered by a lithium battery assembly contained within the detector housing. A mounting base is supplied with every detector which requires only two screws for installation.

SPECIFICATIONS	
<b>Detector Type</b>	Rate of rise or fixed point
<b>Temperature Range</b>	0°C to +60°C
<b>Humidity</b>	0 to 95% (no condensation)
<b>Transmitter Frequency</b>	868 MHz
<b>Transmission Type</b>	Narrow band FM
<b>Channels</b>	13 available
<b>Audible Warning</b>	Sounds in alarm and test mode
<b>Indications</b>	Alarm - red solid Fault - red flashing Log-on mode - green solid
<b>Battery</b>	x1 EDA-Q690
<b>Weight</b>	180g



### Product Dimensions

- Diameter 115mm
- Depth 45mm

PRODUCT CODE	DESCRIPTION
F/EDA-D5000	Zerio Plus heat detector



#### Product Dimensions

- Height 150mm
- Width 120mm
- Depth 70mm

PRODUCT CODE	DESCRIPTION
F/EDA-A6000	Zerio Plus radio sounder

## Sounder

The EDA-A6000 Zerio Plus Wireless Wall Sounder is a wall mounted and designed specifically to be used with the Zerio Plus range of wireless fire alarm panels.

In normal operation the EDA-A6000 Zerio Plus Wireless Sounder continuously listens via its built in radio receiver to any instruction emanating from its controlling panel. Once operating it continues to listen for further instructions to change tone or silence.

To ensure that the integrity of the communication link is maintained, frequent transmissions are made by the EDA-A6000 to the control panel so that in the unlikely event of the radio signal failing to reach the panel a fault is reported.

SPECIFICATIONS	
Temperature Range	0°C to +60°C
Humidity	0 to 95% (no condensation)
Transmitter Frequency	868 MHz
Transmission Type	Narrow band FM
Channels	13 available
Volume	105 -85dbA programmable from control panel
Audible Warning	Sounds in alarm and test mode
Indications	Alarm - red solid
	Fault - red flashing
	Log-on mode - green solid
Battery	x3 EDA-Q690
Weight	420g



#### Product Dimensions

- Height 150mm
- Width 120mm
- Depth 78mm

PRODUCT CODE	DESCRIPTION
F/EDA-A6030	Zerio Plus radio sounder visual indicator
F/EDA-A6060	Zerio Plus radio visual indicator

## Visual Indicators

The EDA-A6060 and EDA-A6030 are White Wall Mounted Fire Alarm Visual Indicators.

The F/EDA-A6030 has a sounder incorporated.

To ensure that the integrity of the communication link is maintained, frequent transmissions are made by the EDA-A6060 or EDA-A6030 to the control panel so that in the unlikely event of the radio signal failing to reach the panel a fault is reported.

SPECIFICATIONS	
Temperature Range	0°C to +60°C
Humidity	0 to 95% (no condensation)
Transmitter Frequency	868 MHz
Transmission Type	Narrow band FM
Channels	13 available
Sound Output	105dB
Audible Warning	Sounds in alarm and test mode
Indicator	Red high intensity LED beam spreading lens
Indications	Alarm - red solid
	Fault - red flashing
	Log-on mode - green solid
Battery	x3 EDA-Q690
Weight	440g

# Call Point

The Call point incorporates the radio communication equipment within the device. Powered entirely by a lithium battery assembly, housed within the call point; ensures that no external cables are required to power the unit and that the unit can be installed by simply using two screws.

The EDA-C5000 Zerio Call Point is supplied complete with a backbox and battery assembly.

SPECIFICATIONS	
Temperature Range	0°C to +60°C
Humidity	0 to 95% (no condensation)
Transmitter Frequency	868 MHz
Transmission Type	Narrow band FM
Channels	13 available
Audible Warning	Sounds in alarm and test mode
Indications	Alarm - red solid
	Fault - red flashing
	Log-on mode - green solid
Battery	x1 EDA-Q690
Weight	240g



### Product Dimensions

- Height 90mm
- Width 90mm
- Depth 53mm

PRODUCT CODE	DESCRIPTION
F/EDA-C5000	Zerio Plus call point

# Input/Output Unit

In normal operation the EDA-T6080 Zerio Plus Wireless Output unit continuously listens via its built in radio receiver to any instruction emanating from its controlling panel. Once operated it provides a clean contact output switch to operate external equipment.

To ensure that the integrity of the communication link is maintained, frequent transmissions are made by the EDA-T6080 Zerio Plus Wireless Output unit to the control panel so that in the unlikely event of the radio signal failing to reach the panel a fault is reported.

SPECIFICATIONS	
Temperature Range	0°C to +60°C
Humidity	0 to 95% (no condensation)
Transmitter Frequency	868 MHz
Transmission Type	Narrow band FM
Channels	13 available
Audible Warning	Sounds in alarm and test mode
Indications	Alarm - high intensity clear LED
	Fault - red solid, red flashing
Battery	x1 EDA-Q690
Weight	240g



### Product Dimensions

- Height 90mm
- Width 80mm
- Depth 60mm

PRODUCT CODE	DESCRIPTION
F/EDA-T6080	Zerio Plus radio clean contact input / output unit

## Silence Alarm Button



The EDA-T5100 is a silence button for use with the Zerio Plus Wireless Fire Alarm System.

This unit is designed for use when the Zerio Plus system is setup using the HMO mode.

It allows the system to be silenced within a HMO dwelling in the event of a false alarm before the rest of the fire alarm system is activated.

SPECIFICATIONS	
Temperature Range	0°C to +60°C
Humidity	0 to 95% (no condensation)
Transmitter Frequency	868 MHz
Transmission Type	Narrow band FM
Channels	13 available
Audible Warning	Beeps when button pressed test mode
Indications	Fault - red flashing Button pressed - red flashing
Battery	x1 EDA-Q690
Weight	140g

### Product Dimensions

- Height 90mm
- Width 90mm
- Depth 30mm

PRODUCT CODE	DESCRIPTION
F/EDA-T5100	Zerio Plus radio silence alarm button (zonal hush button)

## Booster Panel and Antennas



Image shows; from left to right F/EDA-Y5000 , F/EDA-Z6010 & F/EDA-Z6000

The Zerio Plus Wireless Signal Booster Panel is designed to relay radio signals from the main control panel around the site to the peripheral devices and other booster panels.

The EDA-Z6010 Wired Intelligent Antenna is designed for use with the Zerio Plus range of control panels. This unit is designed to be hard wired from the main control panel and positioned in areas where the signal strength from the main control panel is low.

The EDA-Y5000 Zerio Plus Antenna is a dipole type antenna with 2.5 metre pre-terminated cable designed for use with the Zerio Plus range of control panels.

This antenna replaces the stubby type antenna supplied with the EDA-Z5008 & EDA-Z5020 panels and is designed to increase the signal strength of the wireless fire alarm system.

PRODUCT CODE	DESCRIPTION
F/EDA-Z6000	Zerio Plus booster panel (requires 240V supply and 24V 7Ah battery F/CH12/7)
F/EDA-Z6010	Zerio Plus hard wired booster panel
F/EDA-Z5008SZ	Zerio Plus wired remote display (standard enclosure)
F/EDA-Y5000	High gain antenna for use with Zerio plus

SPECIFICATIONS	
Temperature Range	0°C to +60°C
Humidity	0 to 95% (no condensation)
Transmitter Frequency	868 MHz
Transmission Type	Narrow band FM
Channels	13 available
Audible Warning	Sounds in alarm and test mode
Battery	1 x 12V 7AH (for booster only)

# Survey Kit

Designed to enable the user to conduct a thorough survey for radio/ wireless fire alarm system signal.

The frequency used is 868MHz.

**Please Note: If required we can also offer an installation and commissioning service for this equipment. For more details contact our Technical Services department on 0845 884 7000 or email [service@channelsafety.co.uk](mailto:service@channelsafety.co.uk)**

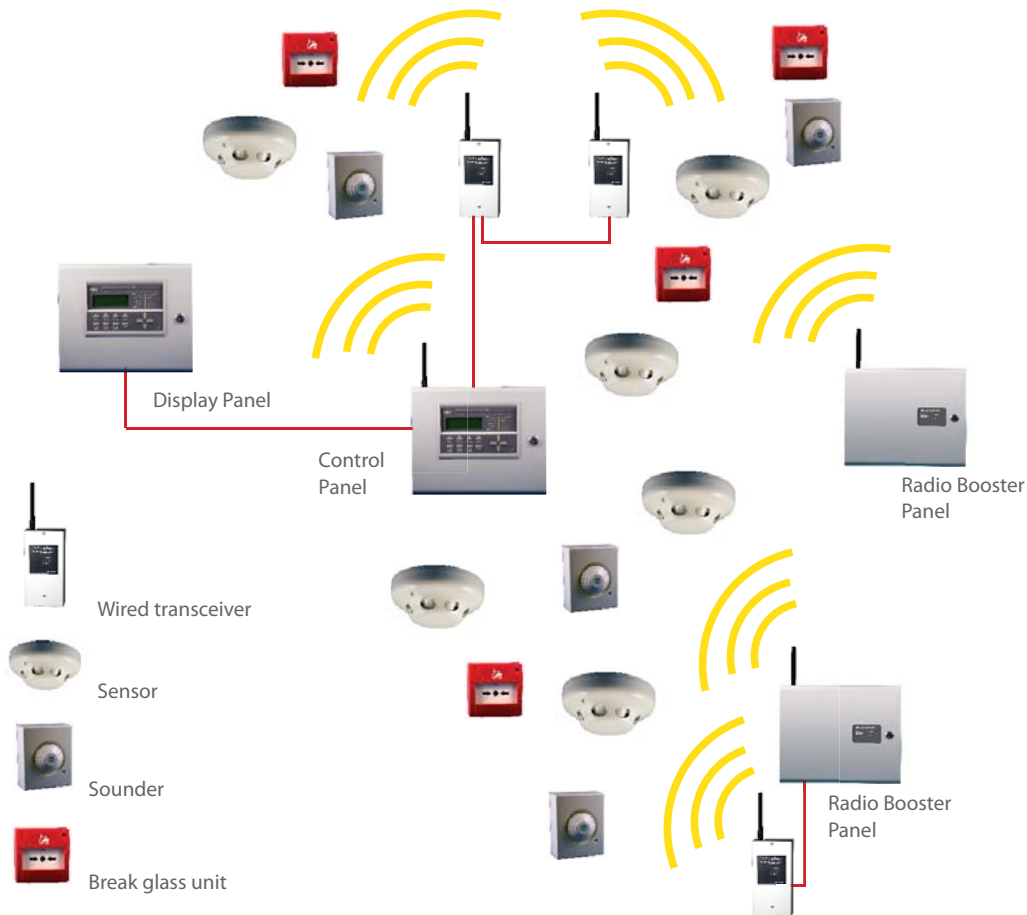
## Case Contents

- 1 x Survey Detector (SSD)
- 1 x Survey Transmitter (SST)
- 1 x Antenna
- 1 x Extension Poles (x4)

PRODUCT CODE	DESCRIPTION
F/EDA-Z5000	Zerio Plus survey kit



# Sample System Architecture



**Please note the Radio Booster Display Panel will be available from March 2014**



## GET INTERACTIVE

Scan the code for further information and technical documents on the Zerio Plus range

[www.channelsafety.co.uk/zerio-plus/](http://www.channelsafety.co.uk/zerio-plus/)

