

ekho



EK-WL8-CP

Hybrid Wireless Manual Call Point

Features

Approved to EN54-11 & 25

RED compliant

Bi-directional wireless communication

Self optimising wireless amplitude and frequency

Tamper switch

Utilises standard low cost lithium battery technology

Up to 10 years battery life*

Resettable Element

Clear 'device activated' warning flag.



Description

A Wireless Resettable Manual Call Point which features a simulated glass. When activated, a plastic 'flag' is displayed in the window of the unit; the supplied key will reset the flag and unit. Supplied with back box.

Specifications

Ordering code	EK-WL8-CP	
Operating frequency range	866 - 870 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Time period between wireless signal transmissions	2 minutes	
Operating temperature range	- 10 °C to + 55 °C	
Max. tolerated humidity	95% RH (non condensing)	
Dimensions (mm)	H 87 x W 87 x D 62	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Secondary cell (CR2032A)
	1.2 Ahr	0.24 Ahr
	Up to 10 years primary battery life*	3 months secondary battery life

Standards & Approvals

EN54-11 Call Points

EN54-25 Components using radio links



*Dependant on operational usage



EK-WL8-EXP

Hybrid Wireless Expander Module

Features

- Approved to EN54-18 and 25
- RED compliant
- Supports MESH communications
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply (24 VDC).



Description

The EK-WL8-EXP Expander Module increases radio coverage of an Ekho Any combination of Ekho wireless devices can be connected to the Translator Module, allowing the use of the system in larger buildings and difficult wireless environments. Multiple Expanders can be utilised in a cell structure to provide a solution to large, complex systems.

When multiple Expander Modules (two or more) are used, these provide a MESH solution maintaining the wireless systems integrity. The system allows up to 126 Expander Modules or field devices to be configured to any one Translator Module*.

Module using a highly stable bi-directional radio communication protocol. The system parameters are programmed into the Expander Module via the Translator Module. The Expander Module is fitted with two internal antennas reducing signal fading and ensuring reliable radio communications. Optional back box available.

Specifications

Ordering code	EK-WL8-EXP	Optional Back box is available (EK-BBOX-01)
Operating frequency range	866 - 870 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Time period between wireless signal transmissions	2 minutes	
Current consumption	80 mA	
Operating voltage	11 - 28 VDC	
Operating temperature range	- 10 °C to + 55 °C	
Max. tolerated humidity	93% RH (non-condensing)	
Weight (g) / Dimensions (mm)	320 / H 143 x W 210 x D 42 without Back box	

Standards & Approvals

EN54-18 Input/Output Devices

EN54-25 Components using radio links



*Dependant on available loop address capacity



EK-WL8-H

Hybrid Wireless A1R Heat Sensor

Features

Approved to EN54-5 and 25
RED compliant
Internal algorithm processing for optimal performance
Tamper switch
Up to 10 years battery life*
Utilises standard low cost lithium battery technology

Bi-directional wireless communications
Self optimising wireless amplitude and frequency
Designed for use with Ekho Translator and Expander modules.



Description

The EK-WL8-H is a wireless A1R heat sensor. It is a fully intelligent device and compatible with the Ekho wireless Translator and Expander modules.

The sensor is designed for installations where smoke detection technology is not suitable.

The well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.

Specifications

Ordering code	EK-WL8-H	
Operating frequency range	866 - 870 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Class A1R	58 °C max.	
Operating temperature range	- 10 °C to + 55 °C	
Max. tolerated humidity (non condensing)	95% RH	
Dimensions (mm)	160 / Ø 111 x H 65	
Power supply (Dual 3V lithium batteries)	1 x Primacy cell (CR123A)	1 x Secondary cell (CR2032A)
	1.2 Ahr	0.24 Ahr
	Up to 10 years primary battery life*	3 months

Standards & Approvals

BS EN 54-5: Heat Point Detectors

BS EN54-25: Components using radio links



*Dependant on operational usage



EK-WL8-OH

Hybrid Wireless Multi-Sensor

Features

Approved to EN54-5,7,25 & 29
RED compliant
Internal algorithm processing optimises performance
Tamper switch
Up to 10 years battery life*
Utilises standard low-cost lithium battery technology

Bi-directional wireless communications
Self optimising wireless amplitude and frequency
Designed for use with Ekho Translator and Expander modules.



Description

The EK-WL8-OH is the latest in wireless multi-criteria sensor technology. It is a fully intelligent device and compatible with the Ekho wireless Translator and Expander modules.

Utilising well-proven adaptive radio signal processing algorithms ensures that the highest levels of life safety and system reliability are achieved.

An in-built magnet test allows easy activation to verify correct functionality

The sensor combines both smoke and (A1R) heat detection technologies for improved performance, which can contribute to reducing unwanted alarms.

Specifications

Ordering code	EK-WL8-OH		
Operating frequency range	868 - 870 MHz		
Communication range (in open air)	1200 m		
Modulation type	GFSK		
Operating frequency channels	6		
Max. radiated power	≤ 25 mW		
Operating modes	Smoke only	A1R Heat only	Smoke and A1R Heat combined
Operating temperature range	- 10 °C to + 55 °C		
Max. tolerated humidity	95% RH (non-condensing)		
Weight (g) / Dimensions (mm)	160 / Ø 111 x H 57		
Power supply (Dual 3V lithium batteries)	1 x Primacy cell (CR123A)		1 x Secondary cell (CR2032A)
	1.2 Ahr		0.24 Ahr
	Up to 10 years primary battery life*		3 months secondary battery life

Standards & Approvals

BS EN 54-5 Heat Point Detectors

BS EN54-29: Multi-sensor fire detectors

BS EN 54-7 Smoke Detectors

CEA4021

BS EN54-25: Components using radio links



*Dependant on operational usage



EK-WL8-IN

Hybrid Wireless Single Input Module

Features

- Approved to EN54-18 and 25
- RED compliant
- Monitored Input
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Tamper Switch
- Up to 10 years battery life*.

Description

The EK-WL8-IN is a Single Channel Input Module providing a convenient and cost effective solution for monitoring third party equipment.

The module is also controllable from the Fire Control Panel via the cause and effect programming and offers the same level of flexibility as a standard addressable module. Optional back box available.

Specifications

Ordering code	EK-WL8-IN	Optional Back box is available EK-BOX-02
Operating frequency range	866 - 870 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Time period between wireless signal transmissions	2 minutes	
Operating temperature range	- 10 °C to + 55 °C	
Max. tolerated humidity	95% RH (non-condensing)	
Weight (g) / Dimensions (mm)	70 / H 109 x W 37 x D 30 (without back box)	
Power supply (Dual 3V lithium batteries)	1 x Primacy cell (CR123A)	1 x Secondary cell (CR2032A)
	1.2 Ahr	0.24 Ahr
	Up to 10 years primary battery life*	3 months secondary battery life

Standards & Approvals

EN54-18 Input/Output devices

EN54-25 Components using radio links



*Dependant on operational usage



EK-WL8-O

Hybrid Wireless Optical Smoke Sensor

Features

Approved to EN54-7 & 25
RED compliant
Internal algorithm processing for optimal performance
Tamper switch
Up to 10 years battery life*
Utilises standard low cost lithium battery technology
Bi-directional wireless communications

Self optimising wireless amplitude and frequency
Designed for use with Ekho Translator and Expander modules.



Description

The EK-WL8-O wireless optical smoke sensor is the latest in wireless smoke sensor technology. It is a fully intelligent device and compatible with the Ekho wireless Translator and Expander modules.

The sensor utilises optical smoke detection technologies and algorithms for improved performance, which can contribute to reducing unwanted alarms.

Utilising well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved.

An in-built magnet test allows easy activation to verify correct functionality

Specifications

Ordering code	EK-WL8-O	
Operating frequency range	868 - 870 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Operating temperature range	- 10 °C to + 55 °C	
Max. tolerated humidity (non condensing)	95% RH	
Dimensions (mm)	Ø 111 x H 57	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Secondary cell (CR2032)
	1.2 Ahr	1.2 Ahr
	Up to 10 years primary battery life*	8 months secondary battery life

Standards & Approvals

BS EN 54-7 Smoke Detectors

BS EN54-25: Components using radio links



*Dependant on operational usage



EK-WL8-OUT

Hybrid Wireless Single Output Module

Features

- Approved to EN54-18 and 25
- RED compliant
- Contact is configured as 24 VDC output
- Bi-directional wireless communication
- Up to 10 years battery life*
- Self optimising wireless amplitude and frequency
- Includes a fault monitoring input.



Description

A Wireless Single Channel Output Module which allows the control panel to switch the circuits of an external device wirelessly via an Ekho Translator/ Expander module. The unit provides a switched voltage output (24 VDC recommended) only. Optional back box is available.

Specifications

Ordering code	EK-WL8-OUT	Optional Back box is available EK-BBOX-01
Operating frequency range	866 - 870 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Time period between wireless signal transmissions	2 minutes	
External power supply voltage	12 - 24 VDC	
Operating temperature range	- 10 °C to + 55 °C	
Switched voltage rating*2	30 VDC / 250 VAC @ 8A	
Max tolerated humidity	93% RH (non-condensing)	
Weight (g) / Dimensions (mm)	350 / H 143 x W 210 x D 42 without Back box	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Secondary cell (CR123A)
	1.2 Ahr	1.2 Ahr
	Up to 10 years primary battery life*	8 months secondary battery life

Standards & Approvals

EN5-18 Input/Output devices

EN54-25 Components using Radio Links



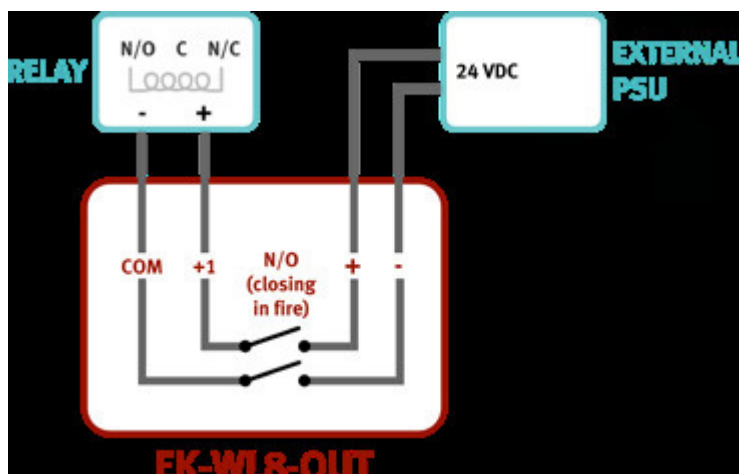
*Dependant on operational usage *2Supply voltage dependant



EK-WL8-OUT

Hybrid Wireless Single Output Module

Relay Diagram



The external PSU will supply the voltage to the power terminals of the Ekho Output Module (rated for 250 VAC but we would recommend only using VDC). When the fire alarm is activated, the Output Module will switch the voltage by closing the two contacts. The voltage is then transferred to the COM and +1 terminals. Please note that a connection from these terminals to a third party relay unit is required. The voltage will then be applied to the coil of the relay and the contacts will operate

*Dependant on operational usage *2Supply voltage dependant



EK-WL8-OV

Hybrid Wireless Optical Smoke Sensor with Built in Voice Annunciator and VAD

Features

Approved to EN54-3, 7, 23 & 25
RED compliant
Voice Sounder and VAD Incorporated
Internal algorithm processing for optimal performance
Tamper switch
Up to 10 years battery life*
Utilises standard low cost lithium battery technology

Bi-directional wireless communications
Self optimising wireless amplitude and frequency
Designed for use with Ekho Translator and Expander modules.

Description

The EK-WL8-OV is a wireless optical smoke sensor that incorporates a voice improved performance, which can contribute to reducing unwanted alarms. sounder and visual alarm device (VAD) with white LEDs and 0.5 Hz flash rate. Utilising well-proven adaptive radio signal processing algorithms ensure the The sensor utilises optical smoke detection technologies and algorithms for highest levels of life safety and system reliability are achieved.

Specifications

Ordering code	EK-WL8-OV	
Operating frequency range	868 - 870 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Number of messages	3 (only one message can be played at any one time)	
Sound pressure level @ 1m	>91 dB(A) for all messages	
Frequency range	500 - 3500 Hz	
VAD LED colour / Rating	White / C-3-2.6	
Flash frequency	0.5 Hz	
Operating temperature range	- 10 °C to + 55 °C	
Max. tolerated humidity	95% RH (non-condensing)	
Weight (g) / Dimensions (mm)	215 / Ø 111 x H 74	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Secondary cell (CR123A)
	1.2 Ahr	1.2 Ahr
	Up to 10 years primary battery life*	8 months secondary battery life

Standards & Approvals

BS EN 54-3: Sounders

BS EN 54-23: Visual Alarm Devices

BS EN 54-7 Smoke Detectors

BS EN54-25: Components using radio links



*Dependant on operational usage



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EK-WL8-TRH

Hybrid Wireless Translator Module

Features

Approved to EN54-17, 18 and 25
RED compliant
Loop Powered
OLED Graphical Display
Integral Loop Short Circuit Isolator
Bi-directional wireless communication
Self-optimising wireless amplitude and frequency

Tamper switch
Flexible on site device adjustment
Makes additions to existing wired systems easy and cost effective.



Description

The EK-WL8-TRH is a fully intelligent wired to wireless Translator Module. The Translator Module incorporates a Loop Short Circuit Isolator and an OLED display to allow the Translator to be easily programmed. Compatible with the Hochiki ESP protocol, the module allows the use of fully intelligent radio (wireless) field devices alongside standard hard wired devices. Each radio field device takes a loop address making them fully intelligent devices.

The Translator Module allows the connection of up to 126* Expanders and their radio connectivity transparent to the end user. System radio field devices to an addressable fire detection loop. Multiple Translators can be used on a system providing the system has sufficient loop power and addresses available. Parameters are programmed via the Translator Module and a PC link. The Translator Module automatically manages sensor radiated power depending on the communication quality. The unit is fitted with two Internal antennas which reduce radio fade and ensure reliable radio communication. Optional back box available. Optional Back box is available EK-BBOX-01

Specifications

Ordering code	EK-WL8-TRH
Operating frequency range	866 - 870 MHz
Communication range (in open air)	1000 m
Modulation type	GFSK
Operating frequency channels	6
Max. radiated power	≤ 25 mW
Time period between wireless signal transmissions	2 minutes
Current consumption	27 mA
Operating voltage	17 - 41 VDC
Max. tolerated humidity	95% RH (non-condensing)
Operating temperature range	- 10 °C to + 55 °C
Weight (g) / Dimensions (mm)	300 / H 143 x W 210 x D 42 without Back box

Standards & Approvals

EN54-17 Short Circuit Isolators

EN54-25 Components using Radio Links

EN54-18 Input/Output Devices



*Dependant on available loop address capacity

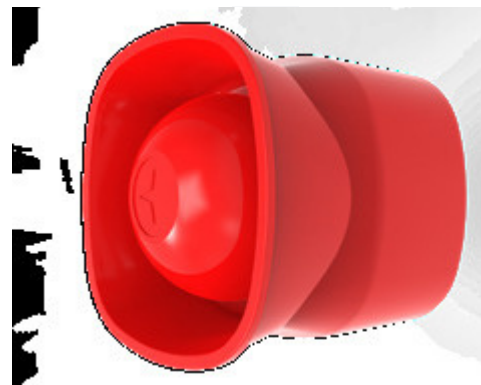


EK-WL8-SND

Hybrid Wireless Sounder

Features

- Approved to EN54-3 and 25
- RED compliant
- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Tamper Switch
- 4 Tone Settings
- Up to 10 year battery life*
- Easy to install



Description

The EK-WL8-SND is a Wall Sounder equipped with our wireless EN54-3 modular. When configured onto an Ekho Translator, the Wireless Sounder is fully alarm device range and is equipped with 4 tones which can be set locally addressable and benefits from intelligent monitoring functionality. the sounder as well as volume control to allow for effective communication.

Specifications

Ordering code	EK-WL8-SND	
Operating frequency range	865 MHz	
Communication range (in open air)	≤ 1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Time period between wireless signal transmissions	2 minutes	
Number of tones	4 (set via DIL switch on the unit)	
Max. sounder output	93 dB(A) @ 1 metre	
Max. tolerated humidity	95% RH (non condensing)	
Operating temperature range	- 10 °C to + 55 °C	
Dimensions (mm)	H 90 x W 90 x D 97	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Secondary cell (CR123A)
	1.2 Ahr	1.2 Ahr
	Up to 10 years primary battery life*	8 months secondary battery life

Standards & Approvals



*Dependant on operational usage



EK-WL8-SK

Hybrid Wireless Survey Test Kit

Features

- Robust carry case
- Easy to use (training is required before purchase)
- Allows for surveying potential hybrid wireless installations.



Description

This Ekho test kit consists of a portable wireless translator, a wireless sensor and the translator module, enabling you to design a wireless system successfully.

The keypad displays the wireless communication signals between the Power supply not included.

Specifications

Ordering code	EK-WL8-SK
Weight (kg) / Dimensions (mm)	5.35 / H 430 mm x W 370 mm x D 160 mm

Standards & Approvals

