



Ekho
Hybrid Wireless

PRODUCT SPECIFICATIONS
FEB24

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. Compatible with the Hochiki ESP protocol, the module allows the use of fully intelligent radio (wireless) field devices alongside standard hard wired devices.

The Translator Module allows the connection of up to 126* Expanders and 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.

The Translator Module incorporates a Loop Short Circuit Isolator and an OLED display to allow the Translator to be easily programmed.

Each radio field device takes a loop address making them fully intelligent and their radio connectivity transparent to the end user. System parameters are programmed via the Translator Module and a PC link. The Translator Module automatically manages sensor radiated power depending on the device communication quality. The unit is fitted with two Internal antennas which reduce radio fade and ensure reliable radio communication. Optional back box available.

Specifications

Ordering code	EK-WL8-TRH	Optional Back box is available EK-BBOX-01
Operating frequency range	866 - 870 MHz	
Communication range (in open air)	Translator to Expander 2000m	Translator to Field Device 1200m
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



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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 Translator Module, allowing the use of the system in larger buildings and in difficult wireless environments. Multiple Expanders can be utilised in a micro 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*.

Any combination of Ekho wireless devices can be connected to the Expander Module*. The Expander Module transmits the intelligent device information from the field devices to the Loop Translator 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



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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 and response.

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	0.24 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



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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



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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.

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

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 and response.

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



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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 sounder and visual alarm device (VAD) with white LEDs and 0.5 Hz flash rate. 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.

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



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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



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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



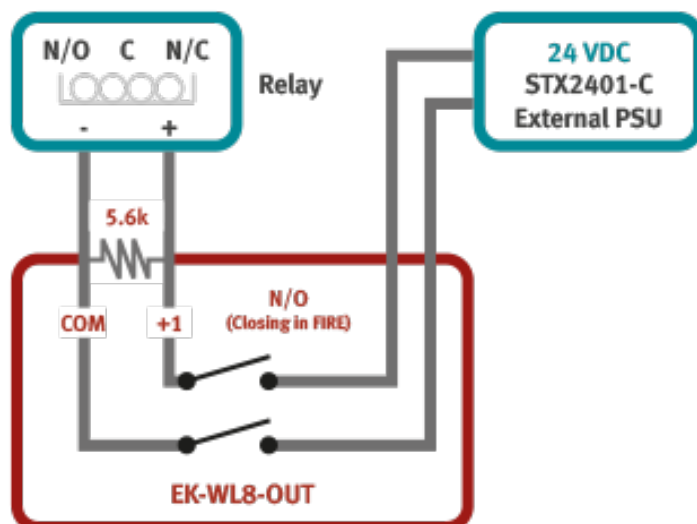
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EK-WL8-OUT

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 **Supply voltage dependant



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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 front.

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



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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 alarm device range and is equipped with 4 tones which can be set locally at the sounder as well as volume control to allow for effective communication.

When configured onto an Ekho Translator, the Wireless Sounder is fully addressable and benefits from intelligent monitoring functionality.

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



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EK-WL8-RI

Hybrid Wireless Remote Indicator

Features

- ▶ 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-RI wireless remote indicator is used to indicate the status of an Ekho wireless detector when installed in hidden or hard to access locations such as ceiling voids or locked rooms. It is fully compatible with the Ekho wireless Translator and Expander modules.

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

The remote indicator has a battery life of up to ten years* and will illuminate red when activated.

Specifications

Ordering code	EK-WL8-RI	
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) / Weight (g)	ø 88 x H 33 / 78	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Secondary cell (CR2032)
	1.2 Ahr	0.24 Ahr
	Up to 10 years primary battery life*	8 months secondary battery life

Standards & Approvals



*Dependant on operational usage

STI-13110FR-BREAK

Weatherproof Manual Call Point Cover

Features

- ▶ Robust polycarbonate construction
- ▶ A simple 4 fixing installation can retrofit over existing device.
- ▶ Can accommodate flush or surface mount applications
- ▶ For use with Ekho Manual Call Point EK-WL8-CP.



Description

This weatherproof call point cover can be used in conjunction with the EK-WL8-CP wireless manual call point to provide secure, weatherproof protection without restricting legitimate operation.

The cover offers excellent protection against physical damage (both accidental and intentional), dust and grime as well as severe environments inside and out.

Specifications

Ordering code	STI-13110FR-BREAK
IP Rating	IP54
Material	Polycarbonate
Operating Temperature	- 40 °C to + 121 °C
Dimensions (mm)	H 207 x W 137 x D 105 (surface) D x 68 (flush)

10-2210WSR-S

Conventional Auxiliary Relay Unit

Features

- ▶ 4 x 20 mm knockouts for surface and glanded entry
- ▶ 2 Wire compatibility
- ▶ Bright LED signals activation
- ▶ Can be flush or surface mounted
- ▶ Dual pole - live and negative both isolated.



Description

A product featuring two volt free contacts to control/ interface additional equipment from the Fire Alarm Control Panel.

The Relay can be connected to a Fire Alarm sounder circuit (subject to local codes of practice) without compromising circuit EOL monitoring. The relay allows other equipment to be engaged or disengaged during a fire alarm condition.

The product additionally features a red LED that will illuminate when the product has been energized and both contacts have changed state.

The product is designed to fit any recessed single gang box, giving a flush finish or surface mounted using the surface box.

Specification

Relay contact	8 A 250 VAC (Resistive) Note if mains voltages are being switched ensure local electrical wiring practices are adhered to.
Relay trigger voltage (typical)	24 VDC (Minimum 21.6 VDC)
Current consumption	6 mA at 24 VDC
Operating temperature range	- 5 °C to + 50 °C
Operating humidity	95% Non-condensing
Case colour / Material	White / Fire rated ABS
Weight (kg) / Dimensions (mm)	0.06 / H 100 x W 89 x D 35
Maximum conductor size	2.5mm ² per terminal



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 smoke sensor and a keypad.

The keypad displays the wireless communication signals between the

sensor and the translator module, enabling you to design a wireless system successfully.

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

