K·Mesh
Wireless Fire Detection

KM-WL8-HS

Wireless A1R Heat Sensor with Sounder

Features

- Approved to EN54-3, 5 and 25
- RED compliant
- Sounder incorporated
- 6 selectable tone modes
- 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
- Compatible with K-Mesh Translator/Expander Modules

Description

The KM-WL8-HS Wireless A1R Heat Sensor with Sounder is a fully intelligent device compatible with the K-Mesh wireless Translator and Expander modules. The heat detector element monitors the environmental temperature and will activate an alarm when the temperature exceeds its alarm threshold, the built in sounder element provides audible indication notifying occupants of an alarm condition.

Heat sensors are designed for applications where smoke detectors are unsuitable due to operating or environmental conditions. A1R heat detectors are rate of rise devices, they have a fixed upper temperature alarm threshold (58°C) as well as having the ability to react to the rate at which the environment temperature rises.

The sounder element is configurable independent of the sensor and can be configured in the panel cause and effect the same as a standard addressable sounder. Two operational frequencies are provided in the sounder along with 6 selectable tone modes. KM-WL8-HS has a maximum sound output of 96dB(A) at 1m.

Well proven adaptive radio signal processing algorithms are used within the device along with self-optimising wireless amplitude and frequency technology providing the highest levels of life safety and system reliability.

The Wireless Heat Sensor is provided with the mounting base, complete with a built in anti-tamper switch which will indicate a fault at the panel should the device be removed from its associated detector base. An LED indication is provided on the top of the detector which is visible through 360°, this will flash green in standby mode, flashes yellow in fault, flashes red in an alarm and will flicker red frequently when sounder is active providing clear indication of device status.

The detector can be programmed to turn off the flashing green and flashing yellow LED status, to preserve battery life. In this instance the status LED will only be used to indicate a fire state.

An in-built magnet test feature enables easy activation of the device to verify functionality and response.

Primary and secondary batteries are fully monitored with low battery voltages being displayed on the Kentec Fire Alarm Control Panel.

Ordering codes	
Part no.	Description
KM-WL8-HS	Wireless A1R Heat Sensor with Sounder

Standards & Approvals

EN 54-3 Sounders

EN54-25 Components using radio links

EN 54-5 Heat Point Detectors

CE LPCB RED 2014/53 EU

Kentec Electronics Ltd

For further information visit www.kentec.co.uk

Specifications		
Operating frequency range	866 - 869.85 MHz	
Communication range (in open air)	1200 m	
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Sound pressure level	Max 96 dB(A) at 1m for all modes	
Tone frequencies (Hz)	Tone 1 - 3500	
	Tone 2 - 2150	
Tone modes	One tone continuous - Tone 1	
	One tone intermittent - Tone 1 (1s on/1s off)	
	One tone intermittent - Tone 1 (2s on/2s off)	
	Dual tone - Tone 1 + Tone 2 (1s/1s)	
	Dual tone - Tone 1 + Tone 2 (0.4s/0.4s)	
	One tone intermittent - Tone 1 (0.2s on/1.3s off)	
Class A1R	58 °C max	
Operating temperature range	- 10 °C to + 55 °C	
Max. tolerated humidity	95% RH (non condensing)	
Dimensions (mm)	ø 111 x H 76	
Weight (g)	200	
Power supply (Dual 3V lithium batteries)	1 x Primary cell (CR123A)	1 x Secondary cell (CR123A)
	1.2 Ahr	1.2 Ahr
	8 - 10 years primary battery life*	3 months secondary battery life

*Dependent on operational usage

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