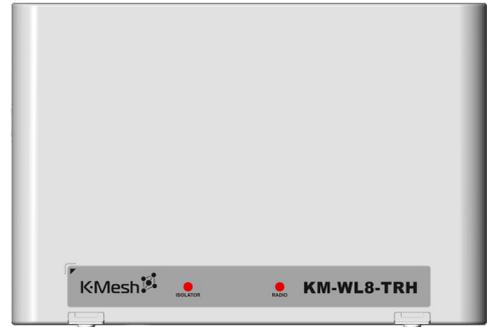# K·Mesh
Wireless Fire Detection

KM-WL8-TRH

Wireless Translator Module

Features

▸ Approved to EN54-18 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 KM-WL8-TRH is the heart of the K-Mesh wireless system providing an intelligent interface between a Kentec addressable fire alarm panel and wireless field devices and expanders. Compatible with Hochiki ESP protocol the Translator is hard wired to the loop terminals of the Fire Alarm Control Panel converting data received from the wireless field devices to loop data.

K-Mesh Translators are loop powered and take up one address on the loop, with each field device also taking a unique address. Up to 126 radio field devices can be linked to a single Translator* from sensors, audio/visual devices, I/O modules to expanders. The Translator Module also incorporates a loop short circuit isolator to protect the hard wired loop.

Translator Modules can be configured to operate as a loop powered expander module allowing flexibility in design of the wireless system.

Two status indicator LEDs are provided on the translator fascia which indicate the status of the isolator and the radio communications when configured as an expander.

Multiple Translator Modules can be used on a system providing there is sufficient loop power and address availability.

Configuration of the wireless system is performed via the translator either using the internal OLED graphical display or associated K-Mesh configuration software. Historical and diagnostic information can be downloaded from the translator using the K-Mesh configuration software assisting engineers with their fault finding.

The wireless system uses well proven adaptive radio signal processing algorithms along with self-optimising wireless amplitude and frequency technology provide the highest levels of life safety and system reliability. Two internal antennae are included in the translator which reduce radio signal fade and ensure reliable communication.

Accessories

KM-BBOX-01
Back box for K-MESH Translator, Expander and Output Modules (complete with 2x 20mm gland)

Allows for additional space for cable wiring especially where cables are surface mounted.

Ordering codes

Part no.	Description
KM-WL8-TRH	K-Mesh Wireless Translator Module
KM-BBOX-01	Back box for K-Mesh Translator, Expander and Output Module (complete with 2 x 20mm glands)

Standards & Approvals

EN54-17 Short Circuit Isolators

EN54-18 Input/Output Devices

EN54-25 Components using Radio Links

CE   LPCB   RED 2014/53 EU

Kentec
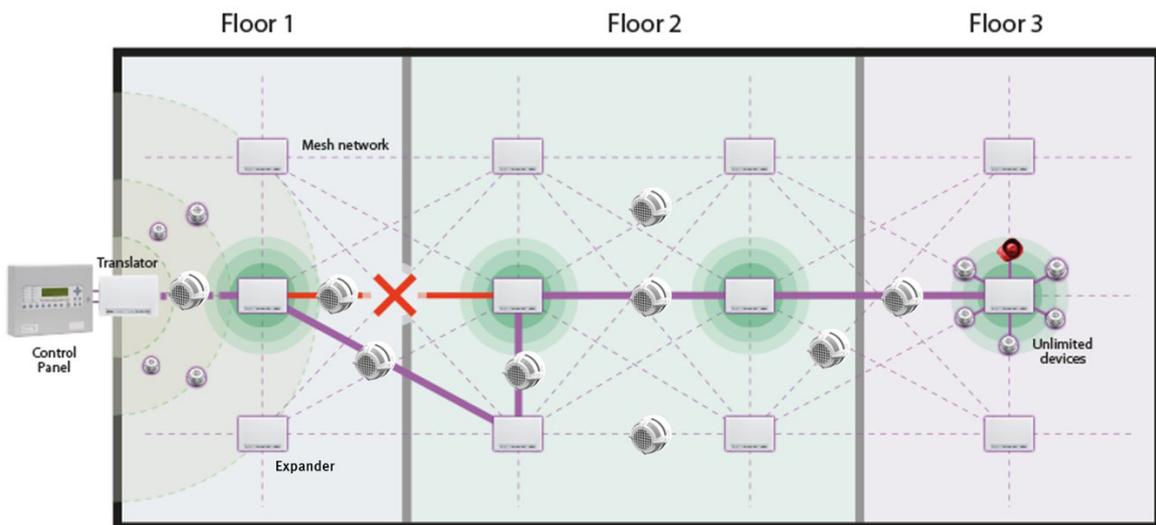## Electronics Ltd

Specifications

Operating frequency range	866 - 869.85 MHz	
Communication range (in open air)	Translator to Expander 2000 m	Translator to Device 1000 m
Modulation type	GFSK	
Operating frequency channels	6	
Max. radiated power	≤ 25 mW	
Time period between wireless signal transmissions	2 minutes	
Current consumption	31 mA	
Operating voltage	17 - 41 VDC	
Max. tolerated humidity	95% RH (non condensing)	
Operating temperature range	- 10 °C to + 55 °C	
Dimensions (mm)	H 145 x W 210 x D 40 without back box (Depth increases to 90mm with back box)	
Weight (g)	300	

*Dependent on available loop address capacity

Example of a mesh configuration