

Key features

- Bi-directional wireless communication
- Self optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Input and Output circuits monitored for fire, fault and normal condition
- Makes additions to existing wired systems easy and cost effective
- Utilises standard low cost lithium battery technology
- Fully monitored primary and secondary power sources

Reference: HFW-IM-01 & HFW-OM-01

Wireless Intelligent Module Range

The HFW module range consists of two variants: a single input unit and a single output unit. Both units are compatible with all loop Translator Modules and Expander Modules.



Additional Information

- The Module parameters are programmed via the Translator Module either by a wireless keypad, PC Link or its onboard keyboard.
- The Translator Module automatically manages the communication radiation power depending on the device communication quality.
- The Modules automatically adjusts the frequency and radiation in accordance with the signal quality received from the Translator Module.

Design

- The Input Module allows the connection of third party equipment and systems to the fire system via a single channel monitored circuit.
- The single channel Output Module allows the switching of a load and can be configured to be either normally open or normally closed.
- Both Modules are fully controllable from the control panel via the cause and effect and offer the same level of flexibility as a standard addressable module.



HFW-IM-01 HFW-OM-01

Wireless Intelligent
Module Range

Temperature Compensation

Temperature compensation gives reliable and steady operation in low and high temperatures and compensates for differences in temperature between the Translator and field device locations.

Power Supply

(Input Module only)

Dual 3V Lithium batteries:

1 x Primary CR123A (1.2Ahr)

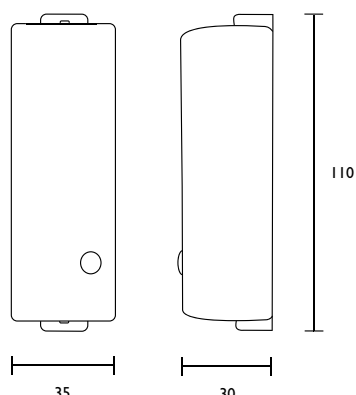
1 x Secondary CR2032A
(0.24Ahr)

(Output Module only
requires external 24V PSU)

The Translator Module monitors the condition of both batteries and shows a discharge of either using an internal LED indicator as well as a fault indication at the Translator Module and Fire Detection Control Equipment.

Indication

- A bi-colour (red and green) LED indicator provides information regarding the operational modes and condition of power supplies.



LED Indication

Indication of device in standard mode following battery installation	Green LED Fast Blinking
Installation of device in programming mode following battery switch on	Red LED 4 Short Flashes
Device in Self Adjustment Mode	Red LED on with Occasional Blink

Technical Specification

Communication range with the Translator Module	150M (open space)
Operating Frequency	868-870 MHz
Modulation Type	Frequency Modulation
Number of Operating Channels	7
Time Period Between Wireless Signal Transmissions	From 12 sec. to 2 min.
Estimated Battery Life (Dependant on time period between wireless signal transmissions)	
Primary Cell (CR123A)	Between 3 and 5 years
Secondary Cell (CR2032A)	2 Months
Dimensions	35mm x 110mm
Operating Temperature Range	-30°C to +50°C
Radiated Power	0.01 - 10mW
Output Module Switching Capacity	3A @ 30V dc
Output Module PSU Requirement	10-27V dc