FIREwave®
Wireless Expander Module
RSM-EXP

Features

- Bi-directional wireless communication
- Self-optimising wireless amplitude and frequency
- Automatic wireless channel hopping
- Fully intelligent
- High reliability and sensitivity
- Flexible on site device adjustment
- IP65 protection for exterior mounting
- Makes additions to existing wired systems easy and cost effective
- Requires external power supply (24 V dc)

Description

The RSM-EXP Expander Module increases radio coverage of a FIREwave RSM-WTM 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.

Up to 7 Expander Modules may be configured to any one Translator Module forming a micro cell cluster. Each cluster can be programmed with up to 32 radio field devices. These devices can comprise of any combination of detectors, call point and input modules and include up to 16 sounders and output devices. The Expander Module relays 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 an RS232 PC link. The unit is housed in an IP65 housing making it suitable for mounting in a wet environment or outdoors and is also fitted with two orthogonal antennae, reducing signal fading and ensuring reliable radio communications.

Ordering Code	RSM-EXP
Communication range with the field devices	150 m (open space)
Communication with RSM-EXP Expander Module	300 m (open space)
Operating frequency	868 - 870 MHz
Modulation type	Frequency Shift Keying
Number of operating channels	7
Time period between wireless signal transmissions	From 7 seconds to 2 minutes
Operating temperature range	-30 °C to +50 °C
Radiated power	0.01 - 10 mW
Current consumption	15 mA
Operating voltage	10 - 27 V dc
IP Rating	IP65
Dimensions (mm)	H160 (240 with antenna) x W120 (200 with antenna) x D50

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