

FF Data Sheet | Taurus Wireless Conventional Expander

FRMEC

Conventional Transmitter Interface Module 32 Device Capacity - AS7240.25, AS7240.17 & AS7240.18

The FRMEC Wireless 'Next Generation' Conventional Expander Module has been designed to allow the integration of wireless detection and alarm type field devices into almost any type of system.

Regardless of whether the system is addressable or conventional the unit can be simply connected to a conventional zone or sounder circuit, directly or via loop modules.

The wireless field devices connect to the system as non-addressable devices, but still utilise the same technology as Fusion Digital Distributed Intelligence wireless devices and are fully monitored for alarm and fault, ensuring the highest levels of life safety and reliability is maintained.

The expander can link up to 32 DDI wireless field devices of any type. The system offers extremely flexible design configurations with the capability of up to 16 expanders for range enhancement. With this level of flexibility, it is extremely unlikely distance would compromise system design requirements. All wireless communications incorporate multi-path redundancy for spurious RF noise rejection and maximum link reliability.

The translator allows seamless integration of the wireless devices alongside standard wired devices. Using cutting-edge wireless technology and a proprietary orthogonal antenna design it ensures the highest levels of life safety and system reliability in accordance with the latest AS1670.1 2018 requirements and AS ISO 7240.25.

The devices are specifically designed for Fusion AU-5000 control panels.



Key Features

- Bi-directional wireless communication
- External PSU power supply
- Internal antennae design protects the device from environmental conditions, vandalism accidental damage or misuse
- Low current consumption
- Devices are fully monitored for alarm and fault
- Compatible with up to 15 expander modules (8 hops)
- Compatible with wide range of conventional and addressable systems
- Site programmable via local keypad, or via wireless or wired PC connection
- 66 wireless channels
- 50-75m communication range with the expander modules or field devices in internal environments (subject to survey)
- Dual channel redundancy
- Easy scan & link programming option
- Up to 32 wireless field devices per Conventional Expander
- Easy scan & link programming option
- External PSU status supervision
- Compatible with up to 8 layers/15 expander modules
- 3rd party approval to AS 7240.13, AS ISO 7240-25, AS ISO 7240.17 & AS ISO 7240.18



Specifications

Operating frequency range	916 MHz
Power supply range	9Vdc – 30Vdc
Typical current consumption	40mA (@12Vdc)
Max radiated power	14dBm (25mW)
IP rating	30
Operating Temperature	-10°C to +55°C
Max humidity (non-condensing)	90% RH
Weight	700 g
Dimensions	235 mm x 160 mm x 70 mm

Certification & Approval

AS7240.13	Compatibility
AS ISO 7240.25	Radio Transmission Paths
AS ISO 7240.17	Short Circuit Isolators
AS ISO 7240.18	Input and Output Modules
CertMark	Certificate Number PC10065

Part Numbers & Options

FRMEC	Wireless Conventional Expander Module
MXP-049	AS7240.4 Power Supply Equipment (Optional Extra)

Diagram:

