

## FF Data Sheet | Taurus Wireless Smoke Detector

The FROP is a Digital Distributed Intelligence wireless dual optical smoke detector. It is the 'next generation' in wireless smoke detector technology and utilises dual optical smoke detection technologies for obscuration and particle analysis. Sophisticated algorithms utilise information from the dual optical channels to ensure a high level of false alarm rejection without compromising genuine alarm sensing performance.

The device also uses 'Drift Compensation' enabling it to adjust its sensitivity due to contamination. When the device reaches 80% of its adjustment it sends a maintenance alarm to the CIE indicating that the device will need cleaning. A magnet test facility is also included.

The enhanced design of the smoke inlet and optical chamber guarantees a very high resistance to the entry of contaminants, further ensuring a higher level of false alarm rejection.

With a unique approach to programming and configuration software, the detectors are learnt into the system and addressed by simply holding the device's 'QR' code near the camera on your laptop, it then appears on the screen and is ready for programming.

Powered by 2 CR123A batteries (1 primary and 1 secondary) the device has an impressive 10-year battery lifespan. Once the primary battery has reached the end of its life, a maintenance warning is sent to the CIE, and the secondary battery continues to power the detector for typically 3 months.

This detector is characterised by an aesthetically pleasing low profile and is specifically designed for the Fusion DDI protocol.



### Key Features

- Advanced dual optical chamber design
- Dual angle scattering analysis
- Advanced drift compensation
- Bi-directional wireless communication
- 66 wireless channels
- 50-75m communication range with the expander modules or field devices in internal environments (subject to survey)
- Dual channel redundancy
- 10-year battery life
- Utilises standard low-cost lithium battery technology (2x CR123A)
- Device identification tab
- Fast test feature for engineer testing
- Easy 'QR' scan & link programming option
- Security screw to prevent tampering and unwanted removal
- 3rd party certified to AS 7240.7, AS7240.13 & AS ISO 7240.25
- Utilises Fusion Digital Distributed Intelligence protocol with high noise rejection
- Dust Restrict Chamber (DRC) technology offering advanced immunity to airborne contaminants
- Dual tri-colour LEDs providing 360° cone of visibility
- Magnet test facility
- Tamper switch to indicate if the device is removed from its base
- Multiple/redundant frequency channels options

## Specifications

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Operating frequency range     | 916 MHz                                                  |
| Max radiated power            | 14dBm (25mW)                                             |
| Dimensions                    | 110mm x 70mm                                             |
| Weight (without batteries)    | 155 g                                                    |
| Batteries                     | 2 x CR123A                                               |
| Operating Temperature         | -10C to +55C (performance may vary at extremes of range) |
| Max humidity (non-condensing) | 95% RH                                                   |
| IP rating                     | 40                                                       |

## Certification & Approval

|               |                            |
|---------------|----------------------------|
| AS 7240.7     | Point Type Smoke Detectors |
| AS 7240.13    | Compatibility              |
| ASISO 7240.25 | Radio Transmission Paths   |
| CertMark      | Certificate Number PC10065 |

## Part Numbers & Options

|      |                                                                   |
|------|-------------------------------------------------------------------|
| FROP | Digital Wireless Dual Optical Smoke Detector c/w Base & Batteries |
|------|-------------------------------------------------------------------|

## Diagram:

