

OI-6940-XP Quad Sensor Assembly

The OI-6940 Explosion Proof Series by Otis Instruments is a wireless, battery-powered multi-gas detection system engineered for simultaneous monitoring of up to four toxic and combustible gases. This advanced device ensures continuous safety monitoring in challenging environments.

Key Features:

- **Multi-Gas Detection:** Supports up to four sensor elements to provide comprehensive monitoring of toxic and combustible gases.
- **Non-Intrusive Calibration:** Maintains safety certifications through in-field adjustments without compromising the Class I, Division I, Groups B, C, and D status.
- **Continuous Environmental Monitoring:** Provides gas level measurements every minute, with an increased reporting frequency of every five seconds when gas concentrations exceed the adjustable Background Gas Set-Point.
- **Real-Time Display:** The integrated display screen offers a constant readout of the current gas concentrations, ensuring quick and informed responses.
- **Adjustable Set Point:** Allows for site-specific calibration, ideal for environments with persistent low gas levels.

Ideal For:

- Industrial facilities
- Chemical plants
- Oil and gas operations
- Hazardous work environments

Achieve enhanced safety and operational confidence with the Otis Instruments WireFree OI-6940 Series, designed for precision and reliability in hazardous gas detection.



WireFree Battery Powered Explosion-Proof Multi-Gas Detector

Product Specifications	
Sensor Type	Electrochemical, Photo Ionization Detector, and/or Low-Power Infrared Sensor
Power Type	Battery Powered 3.6 V (76 Ah) Battery Pack (Non-Rechargeable)
Battery Life	6 Months Maximum Battery Life (45 Days with VOC Sensor)
RF Connection	External N-Female Radio Frequency (RF) Connector
Display Screen	160x104 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	4 Push-Buttons (MENU, BACK, ADD, and SUB) 4 Magnetic Non-Intrusive Switches for Calibration (MENU, BACK, ADD, and SUB)
Customizable Settings	Adjustable Background Gas Setting (1% to 10% of Full Scale) Settable per Sensor Element
T _{amb} Temperature Range	-40°C to +60°C
WireFree Radio Options	GEN II 900 MHz Radio or GEN II 2.4 GHz Radio
Networks	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Component Certification	Class I, Division 1 Groups B, C, & D
Product Dimensions	7 in. D x 11 in. W x 24 in. H (Max. Dimensions w/ Attachments)
Total Weight	25 lbs.
Hardware Warranty	Limited One Year
Sensor Element Warranty	Varies with Sensor Type and Element and is Subject to Otis Verification
Part Number Formula	OI-6940-[Number of Sensors]-[Radio]-XP OI-6940-X-X-XP
Optional Remote Sensor Kit	OI-501-7 Remote Sensor Kit Part Number—OI-501-7 * Electrochemical Sensor—Up to 250 Feet of Cable * Low Power Infrared Sensor—Up to 40 Feet of Cable

