

OI-6900-O-2B Sensor Assembly

The Otis Instruments OI-6900 Explosion-Proof Series is a wireless, dual battery-powered gas detection system designed for hazardous environments. Utilizing electrochemical, PID, or low-power infrared sensors, it provides reliable detection of toxic and combustible gases.

Key Features:

- **Certified Safety:** Class I, Division I, Groups B, C, and D rated, including during non-intrusive calibration
- **Continuous Monitoring:** Real-time gas detection with minute-by-minute updates
- **Dynamic Reporting:** Increases transmission rate to every 5 seconds when gas levels exceed set thresholds
- **Integrated Display:** Clear, real-time gas concentration readings
- **Adjustable Set Points:** Configurable background gas levels for site-specific conditions

Applications:

- Industrial facilities
- Chemical processing
- Oil and gas operations
- Confined and hazardous locations

The OI-6900 delivers dependable, real-time gas detection with flexible configuration to support safety and compliance in demanding environments.



WireFree Explosion Proof Detector

Product Specifications

Sensor Type	Electrochemical, Photo Ionization Detector, or Low-Power Infrared Sensor
Power Type	Dual Battery-Powered
Operating Voltage	3.6 V/38 Ah (19 Ah each) Lithium-Thionyl Chloride (Li-SOCl ₂) Battery with connector, non-rechargeable
Estimated Battery Life	<ul style="list-style-type: none"> * Low Power Infrared—1-Year Max Battery Life * Photo Ionization Detector—14+ Days Battery Life * Electrochemical—2-Year Max Battery Life
RF Connection	External N-Female Radio Frequency (RF) Connector
Display Screen	102x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	3 Push-Buttons (MENU, ADD, and SUB) 3 Magnetic Non-Intrusive Switches for Calibration (MENU, ADD, and SUB)
Customizable Settings	Adjustable Background Gas Setting (1% to 10% of Full Scale)
T _{amb} Temperature Range	-40 to +54°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
Product Dimensions	5.08" D x 8.5" W x 17" H Max with antenna installed
Total Weight	6 lbs.
Remote Sensor Kit Additional feature	OI-501 Remote Sensor Kit with Enclosure (7 pin) <ul style="list-style-type: none"> * Electrochemical Sensor Max Length: 250 Feet * Low Power Infrared Sensor Max Length: 40 Feet * Photo Ionization Detector Max Length: 35 Feet
Hazardous Location Certifications and Approvals QPS Component Certified	Class I, Division I, Groups B, C, and D T _{amb} -40°C to +60°C
Ex Location Certifications ATEX QPS 23ATEX5008X IECEX QPS I9.0025X	Ex db mb ia [ia Ga] IIB T6 Gb  2460  II 2 (1) G -40°C ≤ T _a ≤ +54°C
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies with Sensor Element and Type
Part Number Formula	OI-6900-[Gas]-[Radio]-[Enclosure]-[2 Battery] OI-6900-X-X-O-2B