

OI-6900-O-2B Sensor Assembly

The OI-6900 Explosion Proof Series by Otis Instruments is a wireless, dual battery-powered gas detection system designed to enhance safety in hazardous environments. Equipped with Electrochemical, PID, or Low-Power Infrared sensors, this versatile device detects a wide range of toxic or combustible gases.

Key Features:

- **Certified Safety:** Maintains Class I, Division I, Groups B, C, and D certification even during non-intrusive calibration, allowing for safe, on-site adjustments.
- **Continuous Monitoring:** The OI-6900 continuously measures gas levels in the surrounding environment, providing reliable data every minute.
- **Dynamic Reporting Rate:** Automatically increases the reporting frequency to every five seconds when gas levels exceed the adjustable Background Gas Set Point.
- **Real-Time Display:** The integrated display screen consistently shows the current gas concentration, ensuring immediate visibility of potential hazards.
- **Customizable Set Point:** Allows adjustments to the Background Gas Set Point to accommodate environments with persistent low gas levels.

Ideal For:

- Industrial sites
- Chemical processing plants
- Oil and gas facilities
- Confined spaces and hazardous locations

Ensure safety and compliance with the reliable performance of the Otis Instruments WireFree OI-6900 Series.



WireFree Dual Battery Ambient Air Hazardous Gas Detector

Product Specifications	
Sensor Type	Electrochemical, Photo Ionization Detector, or Low-Power Infrared Sensor
Power Type	Dual Battery-Powered
Operating Voltage	3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (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 (200 mW) Radio or GEN II 2.4 GHz (125 mW) Radio
Networks	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Product Dimensions	5.42 in. L x 6.03 in. W x 17.03 in. H (Max. Dimensions w/ Attachments)
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 1, Groups B, C, and D T _{amb} -40°C to +60°C
Ex Location Certifications ATEX QPS 23ATEX5008X IECEX QPS 19.0025X	Ex db mb ia [ia Ga] IIB T6 Gb  2460  II 2 (1) G -40°C ≤ Ta ≤ +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

GEN²