

GEN²

OTIS

OI-6900-X-X-O-2B Sensor Assembly

WireFree Dual Battery Ambient Air Toxic Gas Detector

The Otis Instruments WireFree OI-6900 Series Ambient Air Toxic Gas Detector is a versatile assembly that uses an electrochemical, PID or low-power infrared sensor element to detect a variety of gases. WireFree, dual battery power (3.6 V Lithium-Thionyl Chloride battery) with 900 MHz or 2.4 GHz Radio options. Magnetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics.

Type	Range	T ₉₀	Warranty
CL2	0-10 ppm	—	12 months
CO	0-1000 ppm	< 210 sec.	24 months
H2S	0-100ppm	< 40 sec.	24 months
HCL	0-100 ppm	—	12 months
HCN	0-50 ppm	< 70 sec.	12 months
HF	0-10 ppm	—	12 months
LEL	0-100% LEL	< 50 sec.	24 months
NH3	0-100 ppm	—	12 months
NH3A	0-1000 ppm	—	12 months
NO2	0-20 ppm	—	12 months
O2	0-25% vol.	—	24 months
PH3	0-5 ppm	< 55 sec.	12 months
SO2	0-20 ppm	< 95 sec.	24 months



Product Features

- Electrochemical, PID or Low-Power Infrared Sensor
- WireFree (Wireless) Communication; Dual Battery-Powered: 3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-SOCl₂) Chloride Battery with Connector (Non-Rechargeable)
- Battery Life: 1-Year Maximum - Low-Power Infrared, 2-Year Maximum - Electrochemical
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Adjustable Background Gas Setting
- 102x64 Resolution Graphical LCD Screen; Transflective (Sunlight Readable) with LED Backlight
- QPS Explosion/Flame-Proof Certification for Select Gases
- Radio Options: 900 MHz Radio and 52 Networks or 2.4 GHz Radio and 78 Networks
- Sensor Element Warranty Varies with Gas Type
- Battery Warranty is 90 Days from Product Ship Date
- 1-Year Limited Hardware Warranty
- Optional OI-501 Remote Sensor Kit with Enclosure



301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700

sales@otisinstruments.com



OI-6900-X-X-O-2B Sensor Assembly

WireFree Dual Battery Ambient Air Toxic Gas Detector

OI-6900-X-X-O-2B Product Specifications

Product Specifications	
Sensor Type	Electrochemical, PID 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)
Battery Life	1-Year Max. (Low-Power Infrared), 2-Year Max. (Electrochemical), 14+ Days (PID)
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
T _{amb} Temperature Range	-40 to +54°C
WireFree Radio Options	GEN II 900 MHz (200 mW) Radio (1-1.5 Miles Range) or GEN II 2.4 GHz (125 mW) Radio (1-1.5 Miles Range)
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	OI-501 Remote Sensor Kit with Enclosure (7 pin)
Additional feature	Available in lengths of up to 250 feet for Electrochemical and lengths of up to 40 feet for Low Power IR
Approvals	QPS Certified Explosion/Flame Proof
Hazardous Location Certifications and Approvals	Class I, Division 1, Groups C and D Ex db IIB T6 Gb Class I, Zone 1, AEx db IIB T6 Gb Tamb -40°C to +54°C
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies with Sensor Element and Type
Battery Warranty	90 Days from Ship Date
Part Number Formula	OI-6900-[Gas]-[Radio]-[Enclosure]-[2 Battery] OI-6900-X-X-O-2B

