

GEN²

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

WireFree Dual Battery Non-Explosion-Proof Gas Detector

WireFree monitoring of toxic gases in harsh conditions.

The Otis Instruments WireFree Non-Explosion-Proof OI-6900 Series Ambient Air Toxic Gas Detector is a wireless, dual battery-powered assembly that uses an electrochemical sensor element to detect a variety of toxic gases. Magnetic switches allow for non-intrusive calibration and system setup while in the field. The OI-6900 continuously monitors the gas level of the surrounding environment and reports once a minute, the reporting rate will increase to once every five seconds when the detected gas is above the Background Gas Set-point. This set-point is adjustable to account for sites that may have a constant low level of gas always present. The display screen always shows the present gas concentration.



Product Features

- Electrochemical Sensor
- WireFree (Wireless) Communication
- Dual Battery-Powered - 3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl Chloride (Li-SOCl₂) Battery with Connector (Non-Rechargeable)
- 2-Year Maximum Battery Life
- 102x64 Resolution Graphical LCD Screen; Transflective (Sunlight Readable) with LED Backlight
- 3 Push-Buttons (MENU, ADD, and SUB)
- 3 Magnetic Non-Intrusive Switches (MENU, ADD, and SUB)
- Non-Intrusive Calibration
- Adjustable Background Gas Setting
- Available with 900 MHz Radio and 52 Networks or 2.4 GHz Radio and 78 Networks
- 1-Year Limited Warranty on Hardware
- Warranty is determined by Sensor Element and Type
- 90-Days from Ship Date Warranty for Batteries

Type	Range	T ₉₀	Warranty
CL2	0-10 ppm	< 60 secs.	12 months
CO	0-1000 ppm	< 30 secs.	24 months
H2S	0-100ppm	< 30 secs.	24 months
HCL	0-100 ppm	<300 secs.	12 months
HCN	0-50 ppm	<70 secs.	12 months
HF	0-10 ppm	< 90 secs.	12 months
NH3	0-100 ppm	<90 secs.	12 months
NH3A	0-1000 ppm	< 120 secs.	12 months
NO2	0-20 ppm	< 25 secs.	12 months
PH3	0-5 ppm	< 30 secs.	12 months
SO2	0-20 ppm	< 35 secs.	24 months

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

Product Specifications	
Sensor Type	Electrochemical 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	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	-20 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	15.76 in. L x 5.11 in. W x 5.37 in. H (Max. Dimensions w/ Attachments)
Total Weight	6 lbs.
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]-2B OI-6900-X-X-T-2B

