

# OI-6900

## Dual Battery Powered WireFree Sensor Assembly

- WireFree (Wireless) Communication
- Quickly setup and install a remote sensor
- Glass lid for viewing the display
- Non-intrusive calibration with MENU, ADD and SUB
- Auto-setting Null, relay/alarm tests & battery voltage indication
- Explosion and weather proof Otis-Blue enclosure
- Electro-chemical or IR-LEL sensor elements for gas detection
- Battery lasts 6-12 months depending on sensor type

### APPLICATIONS

- Blast mining
- Petrochemical plants
- Refineries
- Water & wastewater treatment plants
- Gas, telephone & electric utilities
- Manufacturing facilities

### OVERVIEW

The 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.



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Information

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<b>Sensor type</b>	Electrochemical, PID or Low-Power Infrared Sensor
<b>Power type operating</b>	Dual Battery-Powered
<b>Voltage battery Life</b>	3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-SOCl <sub>2</sub> ) Battery, with Connector (Non-Rechargeable)
<b>RF connection</b>	1-Year Max. (Low-Power Infrared), 2-Year Max. (Electrochemical), 14+ Days (PID)
<b>Display screen</b>	External N-Female Radio Frequency (RF) Connector 102x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
<b>Interface</b>	3 Push-Buttons (MENU, ADD, and SUB) 3 Magnetic Non-Intrusive Switches for Calibration (MENU, ADD, and SUB)
<b>Customisable settings</b>	Adjustable Background Gas Setting
<b>Tamb temperature range</b>	-40°C to +54°C
<b>WireFree radio options</b>	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)
<b>Networks</b>	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
<b>Product dimensions</b>	5.42 in. L x 6.03 in. W x 17.03 in. H (Max. Dimensions w/ Attachments)
<b>Total weight</b>	2.72kg
<b>Remote sensor kit Additional feature</b>	OI-501 Remote Sensor Kit with Enclosure (7 pin) Available in lengths of up to 250 feet for Electrochemical and lengths of up to 40 feet for Low Power IR
<b>ATEX/IECEX Product Certified</b>	<ul style="list-style-type: none"> <li>• II 2 (1) G</li> <li>• Ex db mb ia [ia Ga] IIB T6 Gb</li> </ul>
<b>Warranty</b>	Hardware: One Year (Limited) Sensor Element: Varies with Sensor/Gas Type
<b>Battery warranty</b>	90 Days from Product Ship Date
<b>Sensor element warranty</b>	Varies with Gas Type

Gas Type	Range	T60	Warranty
EC-AsH <sub>3</sub>	0-1 ppm	< 30 sec	10 months
EC-CH <sub>2</sub> O	0-10 ppm	< 30 sec	12 months
EC-CH <sub>3</sub> SH	0-10 ppm	< 100 sec	12 months
EC-CL <sub>2</sub>	0-10 ppm	< 60 sec	12 months
EC-CL <sub>02</sub>	0-1 ppm	< 120 sec	12 months
EC-CO	0-1000 ppm	< 30 sec	24 months
LPIR-CO <sub>2</sub>	0-1.5% vol.	< 30 sec	24 months
EC-ETO	0-10 ppm	< 50 sec	12 months
EC-F <sub>2</sub>	0-1 ppm	< 80 sec	12 months
EC-H <sub>2</sub> S	0-100 ppm	< 30 sec	24 months
EC-H <sub>2</sub> S <sub>2</sub> K	0-2000 ppm	< 25 sec	24months
EC-HBr	0-30 ppm	< 40 sec	12 months
EC-HCL	0-30 ppm	< 300 sec	12 months
EC-HCN	0-50 ppm	< 70 sec	12 months
EC-HF	0-10 ppm	< 90 sec	12 months

Gas Type	Range	T60	Warranty
LPIR-LEL	0-100% LEL (0-5 %vol.)	< 30 sec	24 months
EC-NH <sub>3</sub>	0-100 ppm	< 90 sec	12 months
EC-NH <sub>3</sub> 300	0-300 ppm	< 120 sec	12 months
EC-NH <sub>3</sub> A	0-1000 ppm	< 120 sec	12 months
EC-NO	0-250 ppm	< 40 sec	12 months
EC-NO <sub>2</sub>	0-20 ppm	< 25sec	12 months
EC-O <sub>2</sub>	0-25% vol	< 15 sec	24 months
EC-O <sub>3</sub>	0-5 ppm	< 60 sec	12 months
EC-O <sub>3</sub> H	0-100 ppm	< 60 sec	12 months
EC-PH <sub>3</sub>	0-5 ppm	< 30 sec	12 months
EC-SO <sub>2</sub>	0-20 ppm	< 35 sec	24 months
PID-VOC <sub>10</sub>	0-10 ppm	< 3 sec	6 months / 24 months
PID-VOC <sub>20</sub>	0-20 ppm	< 3 sec	6 months / 24 months
PID-VOC <sub>50</sub>	0-50 ppm	< 3 sec	6 months / 24 months
PID-VOC <sub>1K</sub>	0-1000 ppm	< 3 sec	6 months / 24 months
PID-VOC <sub>2K</sub>	0-2000 ppm	< 3 sec	6 months / 24 months