

# GEN<sup>2</sup>

# OTIS

## OI-6750 Sensor Assembly

### 2-Wire Electrochemical Toxic Gas Detector

The Otis Instruments OI-6750 Series Toxic Gas Detector is a versatile assembly that uses an electrochemical sensor to detect a variety of gases. 2-Wire Loop-Powered to withstand extreme climatic conditions and harsh environments. Magnetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics.



Gas Type	Range	T <sub>90</sub>	Warranty
EC-AsH3	0-1 ppm	< 30 sec.	10 months
EC-CH2O	0-10ppm	< 30 sec.	12 months
EC-CH3SH	0-10 ppm	< 100 sec.	12 months
EC-CL2	0-20 ppm	< 60 sec.	12 months
EC-CLO2	0-5 ppm	< 120 sec.	12 months
EC-CO	0-1000 ppm	< 30 sec.	24 months
EC-ETO	0-10 ppm	< 80 sec.	12 months
EC-F2	0-1 ppm	< 80 sec.	12 months
EC-H2	0-4%	< 60 sec.	18 months
EC-H2S	0-100 ppm	< 30 sec.	24 months
EC-H2S2K	0-2000 ppm	< 25 sec.	24 months
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
EC-NH3	0-100 ppm	< 90 sec.	12 months
EC-NH3300	0-300 ppm	< 120 sec.	12 months
EC-NH3A	0-1000 ppm	< 120 sec.	12 months
EC-NO	0-250 ppm	< 40 sec.	12 months
EC-NO2	0-20 ppm	< 25 sec.	12 months
EC-O2	0-25% vol.	< 15 sec.	24 months
EC-O3	0-5 ppm	< 60 sec.	12 months
EC-O3H	0-100 ppm	< 60 sec.	12 months
EC-PH3	0-5 ppm	< 30 sec.	12 months
EC-SO2	0-20 ppm	< 35 sec.	24 months

### Product Features

- Electrochemical Sensor
- Wired Communication
- Loop-Powered (2-Wire)
- Graphical LCD
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Operating Temperature Range of -40°C to +60°C
- Aluminum Device Enclosure
- 4-20 mA (2-Wire) Analog Output
- 303 Stainless-Steel Sensor Housing
- QPS Explosion Proof/Flame-Proof Certification for Select Gases
- 1-Year Limited Hardware Warranty



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### OI-6750 Product Specifications

Product Specifications			
Sensor Type	Electrochemical		
Power Type	Loop-Powered (2-Wire)		
Operating Voltage	12V to 35V DC		
Current Draw	35 mA Maximum		
Display Screen	102x64 Resolution Graphical LCD Screen		
Product Compatibility	Gen II WireFree Transmitter (OI-5900) Gen II Wired Monitors (OI-7010, OI-7032, OI-7420, OI-7440, OI-7480)		
Interface	3 Push-Buttons (MENU, ADD and SUB) 3 Magnetic, Non-Intrusive Switches for Calibration		
T <sub>amb</sub> Temperature Range	-40°C to +60°C (Varies with Sensor Type)		
Wired (Analog) Output	4-20 mA (2-Wire)		
Product Dimensions	5.42 in. L x 6.03 in. W x 17.03 in. H (Max. Dimensions with Attachments)		
Enclosure Materials	Aluminum Device Enclosure 303 Stainless-Steel Sensor Housing		
Total Weight	5.75 lbs.		
Product Mounting	Wall Mount (Included)		
Approvals	QPS Component Certified Explosion-Proof		
Hazardous Location Certification Approvals	<table border="0"> <tr> <td style="vertical-align: top;"> <p><b>Main Enclosure</b></p> <p>Class I, Division 1, Group B, C and D</p> <p>Ex db IIB Gb</p> <p>Class I, Zone 1, AEx db IIB Gb</p> <p>T<sub>amb</sub> -40° C to +60° C</p> </td> <td style="vertical-align: top; padding-left: 20px;"> <p><b>Sensor Enclosure</b></p> <p>Class I, Division 1, Groups B, C and D</p> <p>T<sub>amb</sub> = -40° C to +60° C</p> </td> </tr> </table>	<p><b>Main Enclosure</b></p> <p>Class I, Division 1, Group B, C and D</p> <p>Ex db IIB Gb</p> <p>Class I, Zone 1, AEx db IIB Gb</p> <p>T<sub>amb</sub> -40° C to +60° C</p>	<p><b>Sensor Enclosure</b></p> <p>Class I, Division 1, Groups B, C and D</p> <p>T<sub>amb</sub> = -40° C to +60° C</p>
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Hardware Warranty	1-Year Limited		
Sensor Element Warranty	1-Year (Varies with Gas Type)		
Part Number Formula	OI-6750-[Gas]-X-O OI-6750-X-X-O		