

# GEN<sup>2</sup>

# OTIS

## OI-6000-X-X-X-X-O Sensor Assembly

### Explosion Proof Wired Power Ambient Air Hazardous Gas Detector

The Otis Instruments OI-6000 Series Ambient Air Hazardous Gas Detector is a versatile assembly that uses an electrochemical, infrared, catalytic bead or PID sensor element to detect a variety of gases. Wired power (12 to 35 VDC) with 4-20 mA analog and RS-485 Modbus outputs standard. 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
CB-LEL	0-100% (0-5 % vol.)	< 90 sec.	24 months
CL2	0-10 ppm	< 60 sec.	12 months
CLO2	0-1 ppm	< 120 sec.	12 months
CO	0-1000 ppm	< 30 sec.	24 months
CO2	0-5% vol.	< 30 sec.	60 months
H2S	0-100 ppm	< 30 sec.	24 months
H2S2K	0-2000 ppm	< 25 sec.	24 months
HCL	0-30 ppm	< 300 sec.	12 months
HCN	0-50 ppm	< 70 sec.	12 months
IR-LEL	0-100% (0-5 % vol.)	< 30 sec.	60 months
NH3	0-100 ppm	< 90 sec.	12 months
NH3300	0-300 ppm	< 120 sec.	12 months
NH3A	0-1000 ppm	< 120 sec.	12 months
NO2	0-20 ppm	< 25 sec.	12 months
O2	0-25% vol.	< 15 sec.	24 months
PH3	0-5 ppm	< 30 sec.	12 months
SO2	0-20 ppm	< 35 sec.	24 months
VOC	0-2000 ppm (Max)	< 3 sec.	6 months

### Product Features

- Electrochemical, Infrared, Catalytic Bead or PID Sensor Element
- Wired Power (3-Wire), 12 to 35 VDC Operating Voltage
- Operating Temperature Range of -40°C to +54°C
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- 2 Individually Configurable Alarm Set-Points: Two Front Panel LED Indicators (Amber and Red); Optional Two- Dry-Contact Relays
- Output Options: 4-20 mA (3-Wire) Analog, RS-485 Modbus, Optional GEN II 900 MHz or GEN II 2.4 GHz Radio
- Sensor Element Warranty Subject to Otis Verification
- 1-Year Limited Hardware Warranty



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### OI-6000-X-X-X-X-O Product Specifications

Product Specifications	
Sensor Type	Electrochemical, Infrared, Catalytic Bead or PID
Operating Voltage	Wired Power (3-Wire) 12 to 35 VDC
Power Draw	2 Watts Maximum
Protection	Power Electromagnetic Interference (EMI) Filter 4-20 mA Surge Suppression RS-485 Surge Suppression
Display Screen	102x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with White LED Backlight
Interface	3 Push-Buttons (MENU, ADD and SUB) 3 Magnetic Non-Intrusive Switches for Calibration
Customizable Settings	2 Individually-Configurable Alarm LED/Relay Set-Points
T <sub>amb</sub> Temperature Range	-40°C to +54°C (-40°F to +130°F)
Output (Digital)	RS-485 Modbus
Wired (Analog) Output	4-20 mA (3-Wire) Fault Terminal Optional 2 Dry-Contact Relays with Replaceable 4 Amp Fuses
Remote Sensor Kit (Optional Additional Feature)	OI-501-5 Remote Sensor Kit with Enclosure (5 Pin) <ul style="list-style-type: none"> <li>• Electrochemical Sensor Max. Length: 250 Feet</li> <li>• Infrared Sensor Max. Length: 40 Feet</li> <li>• PID Sensor Max. Length: 35 Feet</li> <li>• Catalytic Bead Sensor Max. Length: 15 Feet</li> </ul>
Product Dimensions	5.5 in. T x 6 in. W x 7 in. H (8 in. W x 17 in. H Max. with Attachments)
Total Weight	6 lbs.
Hazardous Location Certifications and Approvals	Class I, Division 1, Groups C & D Ex d IIB T6 Gb Class I, Zone 1, AEx db IIB T6 Gb T <sub>amb</sub> -40°C to +54°C
Hardware Warranty	1-Year, Limited
Sensor Element Warranty	Varies with Gas Type
Part Number Formula	OI-6000-[Sensor Type]-[Gas]-[Radio Option]-[Relay Option]-O OI-6000-X-X-X-X-O