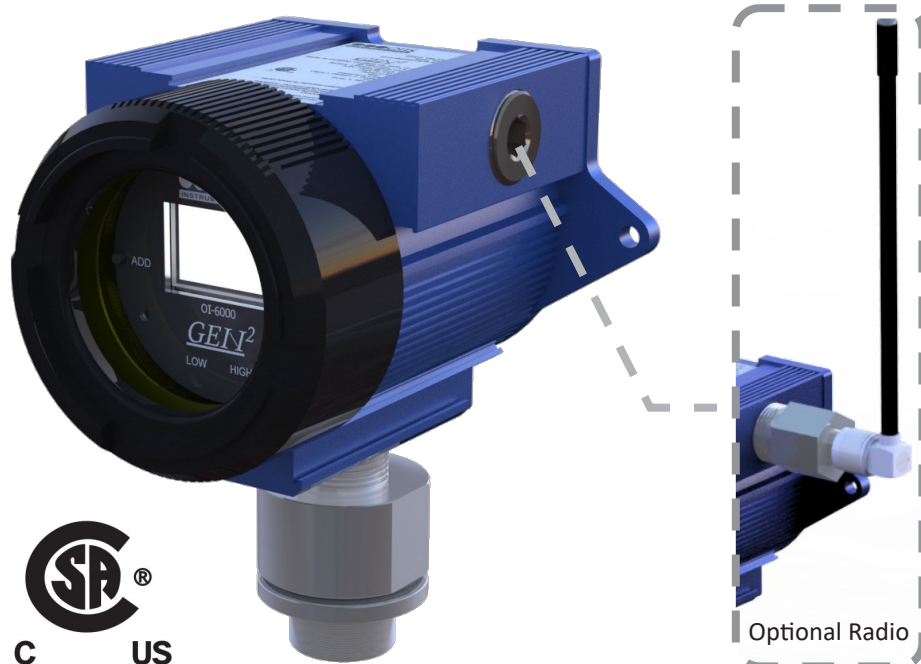


# EXPLOSION PROOF WIRED POWER AMBIENT AIR HAZARDOUS GAS DETECTOR

## 01-6000-X-X-X-X-O Sensor Assembly

The Otis Instruments 01-6000 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), 12-35 VDC Operating Voltage
- Operating Temperature Range of -40°C to +54°C
- Graphical LCD with LED Backlight
- IECEx approval
- 3 Push-Button Interface (ADD, MENU, SUB)
  - 3 Corresponding Magnetic Non-Intrusive Switches
- 2 Individually Configurable Alarm Set-Points
  - 2 Front Panel LED Indicators (Amber and Red)
  - Optional 2 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
- 1-Year Limited Hardware Warranty
- Sensor Element Warranty Subject to Otis Verification

# Specifications

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

Product Specifications	
Sensor Type	Electrochemical, Infrared, Catalytic Bead, or Photo Ionization Detector
Power 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 (MENU, ADD and SUB)
Customizable Settings	2 Individually-Configurable Alarm LED Set-Points
T <sub>amb</sub> Temperature Range	-40°C to +54°C / -40°F to 130°F
Wired Analog Output	4-20 mA (3-Wire) Fault Terminal Optional 2 Dry-Contact Relays with Replaceable 4 Amp Fuses
Digital Output	RS-485 Modbus
Optional WireFree Radio Output	GEN II 900 MHz Radio or GEN II 2.4 GHz Radio
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>• Photo Ionization Detector Sensor Max Length: 35 Feet</li><li>• Catalytic Bead Sensor Max Length: 15 Feet</li></ul>
Product Dimensions	5.5" T x 6" W x 7" H (8" W x 17" H Maximum w/ Antenna Fitting and Antenna)
Total Weight	6 lbs.
Hazardous Location Certifications and Approvals	Class I, Division 1, Group C and D, T6 IECEX - Ex db mb IIB T6 Gb Ex d IIB T6 Gb Zone 1, AEx d IIB T6 Tamb -40°C to +54°C
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies with Gas Type
Part Number Formula	OI-6000-[Sensor Type]-[Gas]-[Radio Option]-[Relay Option]-O



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