



# THE CUBE

# OTIS

## OI-6000-X-X-X-X-X-C Sensor Assembly

### Non-Explosion Proof Wired Powered Ambient Air Toxic Gas Detector

The Otis Instruments OI-6000 Series Ambient Air Toxic Gas Detector is a versatile assembly that uses an electrochemical, infrared or PID sensor element to detect a variety of gases. Wired powered (12 to 35 VDC) with 4-20 mA analog and RS-485 Modbus outputs. 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	0-10 ppm	< 30 sec.	12 months
EC-CH3SH	0-10 ppm	< 100 sec.	12 months
IR-CH4	0-100% vol.	< 30 sec.	60 months
EC-CL2	0-10 ppm	< 60 sec.	12 months
EC-CLO2	0-1 ppm	< 120 sec.	12 months
EC-CO	0-1000 ppm	< 30 sec.	24 months
IR-CO2	0-5% vol.	< 30 sec.	60 months
EC-ETO	0-10 ppm	< 80 sec.	12 months
EC-F2	0-1 ppm	< 80 sec.	12 months
EC-H2	0-4% vol.	< 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
IR-LEL	0-100% LEL (0-5 % vol.)	< 30 sec.	60 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
IRR-R1234YF	0-2000 ppm	< 30 sec.	12 months
IRR-R22	0-2000 ppm	< 30 sec.	12 months
IRR-R32	0-2000 ppm	< 30 sec.	12 months
IRR-R410A	0-2000 ppm	< 30 sec.	12 months
IRR-SF6	0-2000 ppm	< 30 sec.	12 months
PID-VOC10	0-10 ppm	< 3 sec.	6 months / 24 months
PID-VOC20	0-20 ppm	< 3 sec.	6 months / 24 months
PID-VOC50	0-50 ppm	< 3 sec.	6 months / 24 months
PID-VOC1K	0-1000 ppm	< 3 sec.	6 months / 24 months
PID-VOC2K	0-2000 ppm	< 3 sec.	6 months / 24 months

### Product Features

- Electrochemical, Infrared or PID Sensor Element
- Wired Powered (3-Wire), 12-35 VDC Operating Voltage, Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°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; Integrated LED Lighting Systems - Configurable for RED, AMBER, BLUE, WHITE per Alarm and Fault Conditions
- Piezo Terminal Buzzer per Alarm and Fault Conditions – Piezo Terminal Can Power External Alarm Up to 500mA
- Output Options: 4-20mA (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-X-C Product Specifications

Product Specifications	
Sensor Type	Electrochemical, Infrared, Photo Ionization Detector
Power Voltage	Wired Powered (2-Wire) 12 to 35 VDC (Optional AC Power Supply)
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
Tamb Temperature Range	-40°C to +70°C
Wired (Analog) Output	4-20 mA (3-Wire) - Fault Terminal
(Digital) Output	RS-485 Modbus
	Optional GEN II 900 MHz or GEN II 2.4 GHz Radio WireFree Output
Product Dimensions	5" L x 5" W x 5" H
Total Weight	5 lbs.
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies with Gas Type
Enclosure Material	NEMA Class I, 4, 4X, and 6 Polycarbonate Enclosure with Clear Window - IP 66, UL 508 and UL 746C (f1) Rated
Product Number Formula	OI-6000-[Sensor Type]-[Gas]-[Radio Option]-[Relay/Light Option]-[Power Supply]-C

