

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

Explosion Proof Wired Powered Ambient Air Hazardous Gas Detector

The Otis Instruments OI-6000 Series Ambient Air Hazardous Gas Detector is a versatile assembly that uses an eletrochemical, infrared, catalytic bead 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 standard. Mangetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics.



(Vaccor/Salativity)	200000		Market Announce
Gas Type	Range	T90	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
IR-CH4	0-100% vol.	< 30 sec.	60 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
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%	< 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-03	0-5 ppm	< 60 sec.	12 months
EC-03H	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
PID-VOC10	0-10 ppm	< 3 sec.	6 months / 24 month
PID-VOC20	0-20 ppm	< 3 sec.	6 months / 24 month
PID-VOC50	0-50 ppm	< 3 sec.	6 months / 24 month
PID-VOC1K	0-1000 ppm	< 3 sec.	6 months / 24 month
PID-VOC2K	0-2000 ppm	< 3 sec.	6 months / 24 month

Product Features

- Electrochemical, Infrared, Catalytic Bead or PID Sensor Element
- Wired Powered (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 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
- Sensor Element Warranty Subject to Otis Verification
- 1-Year Limited Hardware Warranty





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

Explosion Proof Wired Powered Ambient Air Hazardous Gas Detector

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

Product Specifications			
Sensor Type	Eletrochemical, Infrared, Catalytic Bead or PID		
Operating Voltage	Wired Powered (3-Wire) 12 to 35 VDC		
Power Draw	2 Watts Maximum		
Protection	Power Eletromagnetic 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		
Tamb Temperature Range	-40°C to +54°C		
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) • Electrochemical Sensor Max. Length: 250 Feet • Infrared Sensor Max. Length: 40 Feet • PID Sensor Max. Length: 35 Feet • Catalytic Bead Sensor Max. Length: 15 Feet			
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	CSA Class I, Division 1, Groups B, C and D Ex d IIB T6 Gb Class I, Zone 1, AEx db IIB T6 Gb Tamb -40°C to +54°C ATEX Models w/ Radio Option Ex II 2 (1) G Ex db mb ia [ia Ga] IIB T6 Gb Ta= -40°C to +54°C IECEX Models w/ Antenna Fitting Ex db mb is [in Cal IIB T6 Cb	Models w/out Radio Option (Ex) II 2 G Ex db mb IIB T6 Gb Ta= -40°C to +54°C Models w/out Antenna Fitting	
Hardwara Warrant	Ex db mb ia [ia Ga] IIB T6 Gb -40°C ≤ Ta ≤ +54°C	Ex db mb IIB T6 Gb -40°C \leq Ta \leq +54°C	
Hardware Warranty	1-Year, Limited		
Sensor Element Warranty Part Number Formula	Varies with Gas Type OI-6000-[Sensor Type]-[Gas]-[Radio Option OI-6000-X-X-X-X-O	otion]-[Relay Option]-O	