

OI-6000-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 while remaining Class I Division 1 Groups B, C & D Certified.



Gas Type	Range	T ₉₀	Warranty
CB2-LEL	0-100% LEL	< 90 sec.	24 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-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-HCL	0-30 ppm	< 300 sec.	12 months
EC-HCN	0-50 ppm	< 70 sec.	12 months
IR-LEL	0-100% LEL	< 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-NO2	0-20 ppm	< 25 sec.	12 months
EC-O2	0-25% vol.	< 15 sec.	24 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
PID-VOC20	0-20 ppm	< 3 sec.	6 months
PID-VOC50	0-50 ppm	< 3 sec.	6 months
PID-VOC1K	0-1000 ppm	< 3 sec.	6 months
PID-VOC2K	0-2000 ppm	< 3 sec.	6 months















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Explosion Proof Wired Power Ambient Air Hazardous Gas Detector

OI-6000-O 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 _{amb} 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"> Electrochemical Sensor Max Length: 250 Feet Infrared Sensor Max Length: 40 Feet Photo Ionization Detector Sensor Max Length: 35 Feet Catalytic Bead Sensor Max Length: 15 Feet 								
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 QPS Component Certified	Class I, Division 1, Groups B, C, and D T _{amb} – 40°C to +60°C								
Ex Location Certifications ATEX QPS 23ATEX5008X IECEX QPS 19.0025X	<table border="0"> <tr> <td>Without Antenna Fitting:</td> <td>With Antenna Fitting:</td> </tr> <tr> <td>Ex db mb IIB T6 Gb</td> <td>Ex db mb ia [ia Ga] IIB T6 Gb</td> </tr> <tr> <td> 2460  II 2 G</td> <td> 2460  II 2 (1) G</td> </tr> <tr> <td>-40°C ≤ Ta ≤ +54°C</td> <td>-40°C ≤ Ta ≤ +54°C</td> </tr> </table>	Without Antenna Fitting:	With Antenna Fitting:	Ex db mb IIB T6 Gb	Ex db mb ia [ia Ga] IIB T6 Gb	 2460  II 2 G	 2460  II 2 (1) G	-40°C ≤ Ta ≤ +54°C	-40°C ≤ Ta ≤ +54°C
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 2460  II 2 G	 2460  II 2 (1) G								
-40°C ≤ Ta ≤ +54°C	-40°C ≤ Ta ≤ +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								