

OI-6000

The Otis Instruments OI-6000 Series is a hazardous-area gas detector designed for reliable performance in demanding environments. Supporting electrochemical, infrared, catalytic bead, and PID sensors, it provides broad and accurate gas detection.

Key Features:

- **Multi-Sensor Capability:** Supports electrochemical, infrared, catalytic bead, and PID sensors
- **Flexible Outputs:** Unit comes standard with 4–20 mA analog and RS-485 Modbus communication
- **Add On:** Optional relay board with 2 dry contact relays to enable the use of local alarms; Optional radio to allow radio communication and use hard wired power
- **Non-Intrusive Calibration:** Magnetic interface maintains Class I, Division I, Groups B, C, and D certification
- **Wired Power:** Operates on 12–35 VDC for consistent performance
- **Explosion-Proof Design:** Certified for hazardous locations

Applications:













- Oil and gas facilities
- Chemical processing
- Industrial manufacturing
- Hazardous environments

The OI-6000 delivers accurate, flexible gas detection with robust safety features for critical industrial applications.



3-Wire Explosion Proof Detector

Product Specifications

Sensor Type	Electrochemical, Catalytic Bead, Photo Ionization Detector or Infrared								
Power Type	Wired Powered (3-Wire) 12V to 35VDC								
Power Draw	2 Watts Max								
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 LED Backlight								
Interface	3 Push-Buttons (MENU, ADD, and SUB) 3 Magnetic Non-Intrusive Switches for Calibration (MENU, ADD, and SUB)								
Customizable Settings	(Optional) 2 Individually-Configurable Relay Set Points Alarm set points can be changed on the device to activate external alarms								
T _{amb} Temperature Range	-40 to +54°C								
Wired (Analog) Output	4-20 mA (3-Wire) Fault Terminal								
Wired (Digital) Output	RS-485 Output								
Optional WireFree Radio Output	GEN II 900 MHz Radio GEN II 2.4 GHz Radio								
Product Dimensions	5.08" D x 5.71" W x 9.72" H (8.5" W x 17" H Max. Dimensions w/ Radio Option)								
Total Weight	6 lbs.								
Remote Sensor Kit Additional feature	OI-501 Remote Sensor Kit with Enclosure (5 pin) * Electrochemical Sensor Max Length: 250 Feet * Infrared Sensor Max Length: 40 Feet * Photo Ionization Detector Max Length: 35 Feet * Catalytic Bead Sensor Max Length: 15 Feet								
Hazardous Location Certification and Approvals QPS Component Certified	Class I, Division I, 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>With Antenna Fitting:</td> <td>Without Antenna Fitting:</td> </tr> <tr> <td>Ex db mb ia [ia Ga] IIB T6 Gb</td> <td>Ex db mb IIB T6 Gb</td> </tr> <tr> <td> 2460  II 2 (1) G</td> <td> 2460  II 2 G</td> </tr> <tr> <td></td> <td>-40°C < T_a < +54°C</td> </tr> </table>	With Antenna Fitting:	Without Antenna Fitting:	Ex db mb ia [ia Ga] IIB T6 Gb	Ex db mb IIB T6 Gb	 2460  II 2 (1) G	 2460  II 2 G		-40°C < T _a < +54°C
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Hardware Warranty	Limited one year								
Sensor Element Warranty	Varies with Sensor Element and Type								
Part Number Formula	OI-6000-[Sensor Type]-[Gas Type]-[Optional Radio]-[Optional Relay]-O OI-6000-EC-H2S-9-R-O								