

OI-6000-IR-152-X-X-O Sensor Assembly

Explosion Proof Ambient Air Combustible Gas Detector

The Otis Instruments OI-6000 Series Ambient Air Combustible Gas Detector is a versatile assembly that uses an infrared sensor element to detect combustible gases in ambient air. Wired powered (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 C & D Certified.

Gas Type	Range	T ₅₀	T ₉₀	Warranty
IR-LEL	0-100% (0-5 % vol.)	<10 sec.	< 30 sec.	24 months



Product Features

- Infrared Sensor Element
- Wired Powered (3-Wire) with a 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
- Optional OI-6800 Remote Mount Control Unit
- 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
- Sensor Element Warranty Subject to Otis Verification
- 1-Year Limited Hardware Warranty





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OI-6000-IR-152-X-X-O Product Specifications

Product Specifications			
Sensor Type	Infrared Sensor Element		
Operating Voltage	Wired Powered (3-Wire) 12 to 35 VDC		
Current Draw	1 Amp 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 Mount Control Unit (Optional Additional Feature)	OI-6800 Remote Control Unit		
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	5.75 lbs.		
Hazardous Location Certifications and Approvals	Class I, Division 1, Groups C & D Ex db ia IIB T4 Gb Class I, Zone 1, AEx db ia IIB T4 Gb Tamb -40 Cto +54 C CSA 22.2 No. 152 ANSI/ISA 12.13.01-2013		
Hardware Warranty	1-Year, Limited		
Sensor Element Warranty	24 Months (Subject to Otis Verification of Element Condition)		
Part Number Formula	OI-6000-IR-152-X-X-O (No Relays Installed) OI-6000-IR-152-X-R-O (2 Dry-Contact Relays Installed)		

