

GEN²

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

Explosion Proof Ambient Air Combustible Gas Detector

Certified to CAN/CSA 22.2 No. 152-M1984 (R2011) Performance Standard

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. The assembly is certified to CSA 22.2 No. 152 and ANSI/ISA 12.13.01-2013 Performance standards for quick response to combustible gas. 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 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 Power (3-Wire), 12-35 VDC Operating Voltage
- Operating Temperature Range of -40°C to +54°C
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB)
 - 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
- 1-Year Limited Hardware Warranty
- Sensor Element Warranty Subject to Otis Verification

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

Product Specifications	
Sensor Type	Infrared Sensor Element
Operating Voltage	Wired Power (3-Wire) 12 to 35 VDC
Current Draw	1 Amp 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/Relay 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
Remote Mount Control Unit Optional Additional Feature	OI-6800 Remote Control Unit <ul style="list-style-type: none"> Allows full operational control of the remotely connected OI-6000-IR-152-X-X-O Available in Explosion Proof and Non-Explosion Proof Enclosure Option Ability to include an additional 2 Dry-Contact Relays Ability to add a GEN II 900 MHz or 2.4 GHz Radio for Wirefree Signal Reporting to other Otis Monitors
Product Dimensions	5.5" T x 6" W x 7" H (8" W x 17" H Maximum w/ Attachments)
Total Weight	5.75 lbs.
Hazardous Location Certifications and Approvals	Class I, Division 1, Groups C and D T4 Ex d ib IIB T4 Gb Class I, Zone 0, IIB Aex d ib T4 Gb CSA 22.2 No. 152 ANSI/ISA 12.13.01-2013 Tamb -40°C to +54°C
Hardware Warranty	Limited one year
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