

## OI-6000-X-X-X-R-X-C Sensor Assembly

The Otis Instruments OI-6000 Cube R Series is a versatile ambient air toxic gas detector designed for accurate gas detection and seamless integration with safety and control systems. Utilizing electrochemical, infrared, or PID sensor elements, the OI-6000 offers broad detection capabilities, making it ideal for industrial and commercial applications.

### *Key Features:*

- **Advanced Sensor Technology:** Supports multiple sensor types for comprehensive gas detection, including:
  - \* Electrochemical sensors for toxic gases
  - \* Infrared sensors for combustible gases
  - \* PID sensors for volatile organic compounds (VOCs)
- **Integrated Relay Outputs:** Equipped with built-in relays that can be programmed to trigger external alarms, ventilation systems, or safety shut-off mechanisms during alarm conditions, enhancing site safety and automation.
- **Reliable Communication Options:** Provides:
  - \* 4-20 mA analog output for easy integration with existing control systems.
  - \* RS-485 Modbus output, ensuring effective communication with industrial automation systems.
- **Non-Intrusive Calibration:** Magnetic switches allow for in-field calibration, system configuration, and diagnostics, ensuring minimal downtime and user-friendly maintenance.
- **Stable Power Supply:** Operates on wired power (12 to 35 VDC), offering consistent performance and long-term reliability.
- **Flexible Integration:** The OI-6000's relay outputs enable direct control of external devices, providing a customizable solution for site-specific safety requirements.

### *Ideal For:*

- Industrial safety systems
- Process control environments
- Chemical processing facilities
- Manufacturing and production sites

The Otis Instruments OI-6000 Series delivers accurate and reliable gas detection, combining advanced sensor technology with integrated relay outputs to provide enhanced safety measures and flexible system integration in critical monitoring applications.



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# Non-Explosion Proof Wired Powered Ambient Air Toxic Gas Detector with Relays

Product Specifications	
Sensor Type	Electrochemical, Infrared, Photo Ionization Detector
Power Type	Wired Powered (3-Wire) 12-35 VDC (Optional AC Power Supply)
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 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 Relay Set Points
T <sub>amb</sub> Temperature Range	-40 to +70°C
Wired (Analog) Output	4-20 mA (3 Wire) - Fault Terminal
(Digital) Output	RS-485 Modbus Optional GEN II 900 MHz or GEN II 2.4 GHz Radio WireFree Output
Product Dimensions	5" L x 5" W x 5" H
Total Weight	5 lbs.
Sensor Element Warranty	Varies With Gas
Hardware Warranty	Limited one year
Enclosure Material	NEMA Class I, 4, 4X, and 6 Polycarbonate Enclosure with Clear Window- IP 66, UL 508 and UL 746C (f1) Rated
Product Number Formula	OI-6000-[Sensor Type]-[Gas]-[Radio Option]-[Relay/Light Option]-[Power Supply]-C

