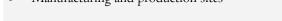# OI-6000-X-X-X-L-X-C Sensor Assembly

The Otis Instruments OI-6000 Cube L Series is a versatile ambient air toxic gas detector designed for advanced gas detection and enhanced safety in industrial environments. Utilizing electrochemical, infrared, or PID sensor elements, the OI-6000 offers broad detection capabilities while providing immediate visual and audible alerts during alarm conditions.

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)
- Built-In Visual and Audible Alarms:
  - Color-Changing LED Indicators: Integrated LEDs change colors based on alarm status, offering immediate visual recognition of normal, warning, and alarm conditions.
  - Integrated Piezo Siren: Provides a loud audible alert during alarm events, ensuring audible awareness of dangerous gas levels even in noisy environments.
- Reliable Communication Outputs: Equipped with:
  - 4-20 mA analog output for seamless integration with existing control systems.
  - RS-485 Modbus output, enabling effective data communication with industrial automation systems.
- Non-Intrusive Calibration: Magnetic switches allow for in-field calibration, system configuration, and diagnostics, ensuring minimal downtime and ease of use.
- Stable Power Supply: Operates on wired power (12 to 35 VDC), providing consistent performance and long-term reliability in critical safety applications.
- User-Friendly Design: Designed with easy access to system settings and diagnostics, enhancing operational efficiency.

Ideal For:

- Industrial safety systems
- Air quality monitoring
- Chemical processing facilities
- Manufacturing and production sites

The Otis Instruments OI-6000 Series not only provides reliable toxic gas detection but also enhances safety response times with its bright color-changing LEDs and loud piezo siren, offering visual and audible alerts that keep workers informed and safe.

Non-Explosion Proof Wired Powered Ambient Air Toxic Gas Detector

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 Alarm LET Set-Points
T_{amb} 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

THE CUBE

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