

OI-6900-X-X-C-2B Sensor Assembly

The OI-6900 Non Explosion Proof “Cube” Series by Otis Instruments is a flexible, wireless, dual battery-powered toxic gas detection system designed for general industrial applications. Utilizing electrochemical, low-powered infrared, or PID sensor elements, the OI-6900 offers reliable detection of a wide range of toxic gases in ambient air.

Key Features:

- Versatile Sensor Options: Supports electrochemical, low-powered infrared, and PID sensors for accurate detection of various toxic gases.
- Wireless Communication: Available with GEN II 900 MHz or 2.4 GHz radios, ensuring easy integration into wireless monitoring systems.
- Non-Intrusive Calibration: Magnetic switches enable in-field calibration, full system configuration, and diagnostics without opening the device—enhancing convenience and efficiency.
 - Dual Battery Operation: Provides extended operational life, minimizing maintenance needs.

Ideal For:

- Industrial and commercial environments
- General air quality monitoring
- Non-hazardous locations
- Maintenance and safety applications

The Otis Instruments OI-6900 “Cube” Series delivers dependable performance and ease of use, making it an ideal choice for ambient air toxic gas detection in non-hazardous settings.



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Non-Explosion Proof Wired Powered Ambient Air Toxic Gas Detector

Product Specifications	
Sensor Type	Electrochemical, Photo Ionization Detector, or Low-Power Infrared Sensor
Power Type	Dual Battery-Powered
Operating Voltage	3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-SOCl ₂) Battery, with Connector (Non-
Estimated Battery Life	Low Power Infrared - 1-Year Max. Photo Ionization Detector - 14 Days + Electrochemical - 2- Year Max.
RF Connection	Internal Antenna
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)
T _{amb} Temperature Range	-40 to +70°C
Customizable Settings	Adjustable Background Gas Setting
WireFree Radio Options	GEN II 900 MHz (200 mW) Radio or GEN II 2.4 GHz (125 mW) Radio
Networks	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Product Dimensions	15.76 in. L x 5.11 in. W x 5.37 in. H (Max. Dimensions w/ Attachments)
Total Weight	6 lbs.
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies With Sensor Element and Type
Enclosure Material	NEMA Class I, 4, 4X and 6 Polycarbonate Closure with Clear Window - IP 66, UL 508 ans UL
Product Number Formula	OI-6900-[Gas]-[Radio]-[Enclosure]-2B OI-6900-X-X-C-2B

