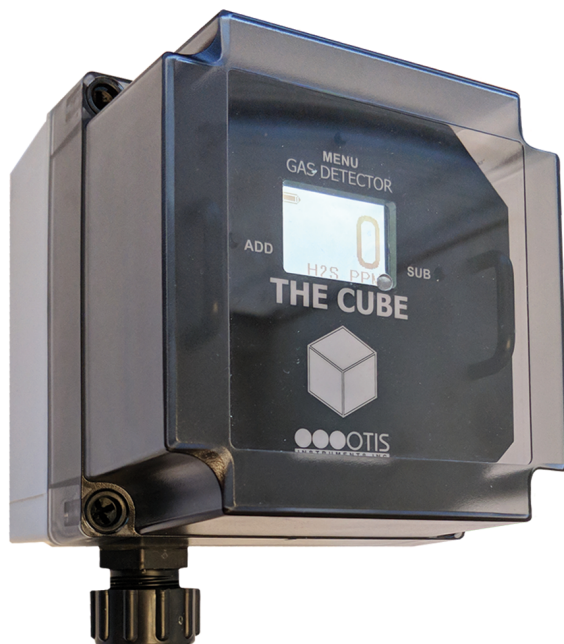# THE CUBE

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

Non-Explosion Proof WireFree Dual Battery Ambient Air Toxic Gas Detector

The Otis Instruments OI-6900 Series Ambient Air Toxic Gas Detector is a versatile assembly that uses an eletrochemical, low-powered infrared or PID sensor element to detect a variety of gases. WireFree, dual battery powered available with GEN II 900 MHz or 2.4 GHz Radios. Magnetic switches allow for non-intrusive calibration while in the field as well as full system setting and diagnostics.

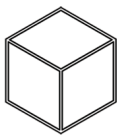| Gas Type	Range	T₉₀	Warranty
EC-AsH3	0-1 ppm	< 30 sec.	10 months
EC-CH2O	0-10ppm	< 30 sec.	12 months
EC-CH3SH	0-10 ppm	< 100 sec.	12 months
EC-CL2	0-20 ppm	< 60 sec.	12 months
EC-CLO2	0-5 ppm	< 120 sec.	12 months
EC-CO	0-1000 ppm	< 30 sec.	24 months
LPIR-CO2	0-1.5% vol.	< 30 sec.	24 months
EC-ETO	0-10 ppm	< 80 sec.	12 months
EC-F2	0-1 ppm	< 80 sec.	12 months
EC-H2	0-4%	< 60 sec.	18 months
EC-H2S	0-100 ppm	< 30 sec.	24 months
EC-H2S2K	0-2000 ppm	< 25 sec.	24 months
EC-HBr	0-30 ppm	< 40 sec.	12 months
EC-HCL	0-30 ppm	< 300 sec.	12 months
EC-HCN	0-50 ppm	< 70 sec.	12 months
EC-HF	0-10 ppm	< 90 sec.	12 months
LPIR-LEL	0-100% LEL (0-5% vol.)	< 30 sec.	24 months
EC-NH3	0-100 ppm	< 90 sec.	12 months
EC-NH3300	0-300 ppm	< 120 sec.	12 months
EC-NH3A	0-1000 ppm	< 120 sec.	12 months
EC-NO	0-250 ppm	< 40 sec.	12 months
EC-NO2	0-20 ppm	< 25 sec.	12 months
EC-O2	0-25% vol.	< 15 sec.	24 months
EC-O3	0-5 ppm	< 60 sec.	12 months
EC-O3H	0-100 ppm	< 60 sec.	12 months
EC-PH3	0-5 ppm	< 30 sec.	12 months
EC-SO2	0-20 ppm	< 35 sec.	24 months
PID-VOC10	0-10 ppm	< 3 sec.	6 months / 24 months
PID-VOC20	0-20 ppm	< 3 sec.	6 months / 24 months
PID-VOC50	0-50 ppm	< 3 sec.	6 months / 24 months
PID-VOC1K	0-1000 ppm	< 3 sec.	6 months / 24 months
PID-VOC2K	0-2000 ppm	< 3 sec.	6 months / 24 months

Product Features

- Electrochemical, Low-Powered Infrared or PID Sensor Element

- Dual Battery-Powered: 3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl Chloride (Li-SOCL2) Battery with Connector (Non-Rechargeable)

- Estimated Battery Life: Electrochemical - 2-Year Maximum; PID - 14-Days+ ; Low-Powered Infrared - 1-Year Maximum

- Graphical LCD with LED Backlight

- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches

- WireFree (Wireless) Communication

- Adjustable Background Gas Setting

- Reports Once a Minute; Reporting Rate will Increase to Once Every 5 Seconds When Gas is Above Set-Point

- Available with GEN II 900 MHZ or GEN II 2.4 GHZ Radio

- 1-Year Limited Hardware Warranty

- Sensor Element Warranty Subject to Otis Vertification

OI-6900-X-X-C-2B Product Specifications

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-Rechargeable)
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)
Customizable Settings	Adjustable Background Gas Setting
T_{amb} Temperature Range	-40°C to +70°C
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 and UL 746C (f1) Rated
Product Number Formula	OI-6900-[Gas]-[Radio]-[Enclosure]-2B OI-6900-X-X-C-2B