

GEN²

OTIS

OI-6940-X-X-XP Quad Sensor Assembly

WireFree Battery Powered Explosion-Proof Multi-Gas Detector

The Otis Instruments OI-6940 Series Ambient Air Multi-Gas Detector is a versatile assembly that uses up to four electrochemical, PID or low-power infrared sensor elements to detect a variety of gases. WireFree, battery power (3.6 V/76 Ah) with 900 MHz or 2.4 GHz Radio options. Magnetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics. Mounting is made easy and mobile using the OI-6940-ST optional wheeled stand.



Gas Type	Range	T ₉₀	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, PID or Low-Power Infrared Sensor
- WireFree (Wireless) Communication
- Battery Powered: 3.6 V/76 Ah Battery Pack (Non-Rechargeable)
- Battery Life: 6 Months Maximum; 2 Months+ - PID
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 4 Corresponding Magnetic, Non-Intrusive Switches
- Adjustable Background Gas Setting per Sensor
- Radio Options: 900 MHz Radio or 2.4 GHz Radio
- Sensor Element Warranty Subject to Otis Verification
- 1-Year Limited Hardware Warranty
- Optional OI-501 Remote Sensor Kit
- Optional OI-6940-ST Wheeled Stand



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OI-6940-X-X-XP Product Specifications

Product Specifications	
Sensor Type	Electrochemical, PID and/or Low-Power Infrared Sensor
Power Type	Battery Powered 3.6 V (76 Ah) Battery Pack (Non-Rechargeable)
Battery Life	6 Months Maximum Battery Life
RF Connection	External N-Female Radio Frequency (RF) Connector
Display Screen	160x104 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	4 Push-Buttons (MENU, BACK, ADD, and SUB) 4 Magnetic Non-Intrusive Switches for Calibration (MENU, BACK, ADD, and SUB)
Customizable Settings	Adjustable Background Gas Setting Settable per Sensor Element
T _{amb} Temperature Range	-40°C to +60°C
WireFree Radio Options	GEN II 900 MHz Radio or GEN II 2.4 GHz Radio
Networks	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Component Certification	Class I, Division 1 Groups B, C & D
Product Dimensions	7 in. D x 11 in. W x 24 in. H (Max. Dimensions w/ Attachments)
Total Weight	25 lbs.
Hardware Warranty	Limited One Year
Sensor Element Warranty	Varies with Sensor Type and Element and is Subject to Otis Verification
Part Number Formula	OI-6940-[Number of Sensors]-[Radio]-XP OI-6940-X-X-XP
Optional Remote Sensor Kit	OI-501-7 Remote Sensor Kit Part Number—OI-501-7 <ul style="list-style-type: none"> • Electrochemical Sensor—Up to 250 Feet of Cable • Low Power Infrared Sensor—Up to 40 Feet of Cable
Optional Product Accessories	OI-6940-ST, 2-Wheeled Cart/Stand