

GEN²

OTIS

OI-6940-X-X-NXP Quad Sensor Assembly

WireFree AC Powered Non-Explosion Proof Multi-Gas Detector

The Otis Instruments WireFree OI-6940 Non-Explosion Proof AC-Powered Ambient Air Multi-Gas Detector simultaneously uses up to four sensor elements to detect an array of gases. The Assembly reports once a minute, however the reporting rate will increase to once every five seconds when the detect gas is above the Background Gas Set-Point. Operates from an AC power supply with an internal backup battery pack. Magnetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics.



Gas Type	Range	T ₉₀	Warranty
EC-Ash3	0-1 ppm	< 30 sec.	10 months
EC-CH ₂ O	0-10ppm	< 30 sec.	12 months
EC-CH ₃ SH	0-10 ppm	< 100 sec.	12 months
EC-C ₂ H ₂	0-20 ppm	< 60 sec.	12 months
EC-CLO ₂	0-5 ppm	< 120 sec.	12 months
EC-CO	0-1000 ppm	< 30 sec.	24 months
LPIR-CO ₂	0-1.5% vol.	< 30 sec.	24 months
EC-EFO	0-10 ppm	< 80 sec.	12 months
EC-F ₂	0-1 ppm	< 80 sec.	12 months
EC-H ₂	0-4%	< 60 sec.	18 months
EC-H ₂ S	0-100 ppm	< 30 sec.	24 months
EC-H ₂ S ₂ K	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-NH ₃	0-100 ppm	< 90 sec.	12 months
EC-NH ₃ 300	0-300 ppm	< 120 sec.	12 months
EC-NH ₃ A	0-1000 ppm	< 120 sec.	12 months
EC-NO	0-250 ppm	< 40 sec.	12 months
EC-NO ₂	0-20 ppm	< 25 sec.	12 months
EC-O ₂	0-25% vol.	< 15 sec.	24 months
EC-O ₃	0-5 ppm	< 60 sec.	12 months
EC-O ₃ H	0-100 ppm	< 60 sec.	12 months
EC-PH ₃	0-5 ppm	< 30 sec.	12 months
EC-SO ₂	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
- AC Powered with Integrated Backup Battery Pack
- Graphical LCD with LED Backlight
- 4 Push-Button Interface (ADD, MENU, SUB, BACK) with 4 Corresponding Magnetic, Non-Intrusive Switches
- WireFree (Wireless) Communication
- Adjustable Background Gas Setting per Sensor
- Radio Options: Available with GEN II 900 MHz or GEN II 2.4 GHz Radio
- 1-Year Limited Hardware Warranty
- Sensor Element Warranty Subject to Otis Verification
- Optional OI-501-7-NXP Remote Sensor Mounting Kit

OI-6940-X-X-NXP Product Specifications

Product Specifications	
Sensor Type	Electrochemical, Photo Ionization Detector, and/or Low-Power Infrared Sensor
Power Type	AC Power Supply with Integrated 3.6VDC/76Ah Backup Battery Pack
RF Connection	External N-Female Radio Frequency (RF) Connector, Flexible Antenna Included
Display Screen	160x104 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	4 Push-Buttons (MENU, ADD, SUB, and BACK) 4 Magnetic Non-Intrusive Switches for Calibration (MENU, ADD, SUB, and BACK)
Customizable Settings	Adjustable Background Gas Setting (1% to 10% of Full Scale) Settable per Sensor Element
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	5 in. D x 10.5 in. W x 20 in. H (Max. Dimensions w/ Attachments)
Enclosure Material	NEMA Class I, 4, 4X and 6 Fiberglass Enclosure with Clear Lid - IP 66, UL 508 and UL 746C (f1) Rated
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies with Sensor Element and is Subject to Otis Verification
Part Number Formula	OI-6940-[Number of Sensors]-[Radio]-NXP OI-6940-X-X-NXP
Optional Remote Sensor Kit	OI-501-7-NXP-Remote Sensor Kit Part Number—OI-501-7-NXP-[Gas Type] <ul style="list-style-type: none"> ● Electrochemical Sensor—Up to 250 Feet of Cable ● Low Power Infrared Sensor—Up to 40 Feet of Cable ● Photo Ionization Detector — Up to 35 Feet of Cable