



# OI-6940-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 4 sensor elements to detect an array of toxic gases. The OI-6940 features non-intrusive configuration and calibration and continuously monitors the gas level of the surrounding environment. The OI-6940 reports once a minute however, the reporting rate will increase to once every five seconds when the detected gas is above the Background Gas Set-Point. This set-point is adjustable to account for sites that may have a constant low level of gas always present. The display screen always shows the present gas concentration being detected. The OI-6940-NXP operates from an AC power supply with an internal backup battery pack.



*GEN<sup>2</sup>*



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OI-6940-NXP 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 <sub>amb</sub> Temperature Range	-20 to +54°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)
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"> <li>• Electrochemical Sensor - Up to 250 Feet of Cable</li> <li>• Low Power Infrared Sensor - Up to 40 Feet of Cable</li> <li>• Photo Ionization Detector - Up to 35 Feet of Cable</li> </ul>

Gas Type	Range	T <sub>90</sub>	Warranty
CL2	0-10 ppm	< 60 secs.	12 months
CO	0-1000 ppm	< 30 secs.	24 months
H2S	0-100ppm	< 30 secs.	24 months
HCN	0-50 ppm	< 70 secs.	12 months
LEL	0-100% LEL	< 50 secs.	24 months
NH3	0-100 ppm	< 90 secs.	12 months
NO2	0-20 ppm	< 25 secs.	12 months
O2	0-25% vol.	—	24 months
SO2	0-20 ppm	< 35 secs.	24 months
VOC10	0-10 ppm	< 90 sec.	6 months
VOC20	0-20 ppm	< 90 sec.	6 months
VOC50	0-50 ppm	< 90 sec.	6 months
VOC1K	0-1000 ppm	< 90 sec.	6 months
VOC2K	0-2000 ppm	< 90 sec.	6 months

