



WIRELESS BATTERY POWERED EXPLOSION PROOF

Gas Detection For Life

AirLink 6940 -XP Sensor Assembly



Features

- **Electrochemical, PID, or low power IR sensors**
- **Wireless communication**
 - 900 MHz radio and 52 networks
 - 2.4 GHz radio and 78 networks
- **Battery powered: 3.6 V/76 Ah battery pack (non-rechargeable)**
- **Battery life**
 - 6-months maximum
 - 2-weeks plus for PID
- **Graphical LCD with LED backlight**
- **3 Push-button interface (ADD, MENU, SUB) with 4 corresponding magnetic, non-intrusive switches**
- **Sensor warranty subject to factory verification**
- **1-Year limited hardware warranty**

Industry Applications

- **Petrochemical plants, Refineries**
- **Water & wastewater treatment plants**
- **Pulp & paper mills**
- **Manufacturing facilities**
- **Chemical plants**

The RKI AirLink 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. Wireless, 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 optional wheeled stand.

Gas Type	Range	T ₉₀	Hazard Classification
AsH ₃	0 - 1 ppm	< 30 sec.	Class 1, Div 2
CL ₂	0 - 10 ppm	< 60 sec.	Class 1, Div 2
CLO ₂	0 - 1 ppm	< 120 sec.	Class 1, Div 2
CO	0 - 300 ppm	< 30 sec.	Class 1, Div 1
CO ₂ -IR	0 - 1.5% Vol.	< 30 sec.	Class 1, Div 1
ETO	0 - 10 ppm	< 80 sec.	Class 1, Div 2
F ₂	0 - 1 ppm	< 80 sec.	Class 1, Div 2
H ₂	0 - 4% Vol.	< 60 sec.	Class 1, Div 1
H ₂ S	0 - 100 ppm	< 30 sec.	Class 1, Div 2
H ₂ S ₂ K	0 - 2000 ppm	< 25 sec.	Class 1, Div 2
HCL	0 - 30 ppm	< 300 sec.	Class 1, Div 2
HCN	0 - 30 ppm	< 70 sec.	Class 1, Div 2
HF	0 - 10 ppm	< 90 sec.	Class 1, Div 2
LEL-IR	0 - 100% LEL (0 - 5% Vol.)	< 30 sec.	Class 1, Div 1
LEL HC-IR	0 - 100% LEL	< 30 sec.	Class 1, Div 1
NH ₃	0 - 100 ppm	< 90 sec.	Class 1, Div 2
NH ₃ 300	0 - 300 ppm	< 120 sec.	Class 1, Div 2
NH ₃ A	0 - 1000 ppm	< 120 sec.	Class 1, Div 2

Gas Type	Range	T ₉₀	Hazard Classification
NO	0 - 100 ppm	< 40 sec.	Class 1, Div 2
NO ₂	0 - 20 ppm	< 25 sec.	Class 1, Div 2
O ₂	0 - 25% Vol.	< 15 sec.	Class 1, Div 1
O ₃	0 - 5 ppm	< 60 sec.	Class 1, Div 2
PH ₃	0 - 5 ppm	< 30 sec.	Class 1, Div 2
SO ₂	0 - 20 ppm	< 35 sec.	Class 1, Div 2
PID VOC	0 - 10.00 / 20.00 / 50.00 ppm	< 3 sec.	Class 1, Div 1
PID VOC	0 - 100.00 / 200.00 / 500.00 / 1000 / 2000 ppm	< 3 sec.	Class 1, Div 1
PID - VOC 10.0 eV	0 - 10.00 / 20.00 / 50.00 / 100 ppm	< 3 sec.	Class 1, Div 1
PID - VOC 11.7 eV	0 - 20.00 / 50.00 / 100 ppm	< 3 sec.	Class 1, Div 1

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Product Specifications		
Sensor Type		Electrochemical, PID or low-power infrared sensor
Power Type		Battery powered 3.6V (76 Ah) battery pack (non-rechargeable)
Battery Life		6 Months maximum battery life (2 weeks if PID is used)
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
Temperature Range		-40°C to +60°C
Wireless Radio Options		900 MHz (200 mW) radio (1-1.5 miles range) or 2.4 GHz (125 mW) radio (1-1.5 miles range)
Networks		52 Networks (900 MHz radio) or 78 networks (II 2.4 GHz radio) 255 addresses per network
Product Dimensions		7 in. D x 11 in. W x 24 in. H (Max. dimensions with attachments)
Total Weight		25 lbs.
Hazardous Location Approvals	Main Enclosure	Certified explosion / flame proof $CQPS_{US}$ Class I, Division 1 & 2, Groups B, C & D Nema 3, 4, 4X, 7 (B, C, D) 9 (E, F, G) Temp.= -20°C to +60°C
	Sensor Housing	Certified explosion / flame proof $CQPS_{US}$ Class I, Division 1 & 2, Groups B, C & D Temp.= -40°C to +60°C Note: Certification only applies to some gases. Toxic gases not certified for Div. 1 locations are suitable for Div. 2 applications but have no third party approval.
Hardware Warranty		Limited one year
Sensor Element Warranty		Varies with sensor type and element and is subject to factory verification
Part Number Formula		Compatible with AirLink 7010 and AirLink 7032
Battery Warranty		90 days from ship date
Optional Product Accessories		2-Wheeled cart/stand

Specifications subject to change without notice.

Made in the USA



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