



# 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 is an explosion proof wireless transmitter with up to 4 sensors, including IR combustibles, PID for VOC's, Electrochemical for a wide range of toxics including CO, H<sub>2</sub>S, SO<sub>2</sub>, O<sub>3</sub> and more. This wireless explosion proof transmitter is an ideal solution for short term continuous monitoring. No trenching, no wiring. Wirelessly communicate with a controller up to a mile away. The AirLink 6940 is battery powered with a 6 month battery life (2 months for PID sensor). The wireless communication is available 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.

Gas Type	Range	T <sub>90</sub>	Hazard Classification	Gas Type	Range	T <sub>90</sub>	Hazard Classification
AsH <sub>3</sub>	0 - 1 ppm	< 30 sec.	Class 1, Div 2	NH <sub>3</sub>	0 - 1000 ppm	< 120 sec.	Class 1, Div 2
CH <sub>4</sub> IR	0 - 100% LEL	< 30 sec.	Class 1, Div 1	NO	0 - 100 ppm	< 40 sec.	Class 1, Div 2
CL <sub>2</sub>	0 - 10 ppm	< 60 sec.	Class 1, Div 2	NO <sub>2</sub>	0 - 20 ppm	< 25 sec.	Class 1, Div 2
CLO <sub>2</sub>	0 - 1 ppm	< 120 sec.	Class 1, Div 2	O <sub>2</sub>	0 - 25% Vol.	< 15 sec.	Class 1, Div 1
CO	0 - 300 ppm	< 30 sec.	Class 1, Div 1	O <sub>3</sub>	0 - 5 ppm	< 60 sec.	Class 1, Div 2
CO <sub>2</sub>	0 - 1.5% Vol.	< 30 sec.	Class 1, Div 1	PH <sub>3</sub>	0 - 5 ppm	< 30 sec.	Class 1, Div 2
ETO	0 - 10 ppm	< 80 sec.	Class 1, Div 2	SO <sub>2</sub>	0 - 20 ppm	< 35 sec.	Class 1, Div 1
F <sub>2</sub>	0 - 1 ppm	< 80 sec.	Class 1, Div 2	PID VOC	0 - 10.00 / 20.00 / 50.00 ppm	< 3 sec.	Class 1, Div 1
H <sub>2</sub>	0 - 4% Vol.	< 60 sec.	Class 1, Div 1	PID VOC	0 - 100.00 / 200.00 / 500.00 / 1000 / 2000 ppm	< 3 sec.	Class 1, Div 1
H <sub>2</sub> S	0 - 100 ppm	< 30 sec.	Class 1, Div 2	PID - VOC	0 - 10.00 / 20.00 / 50.00 / 100 ppm	< 3 sec.	Class 1, Div 1
H <sub>2</sub> S	0 - 2000 ppm	< 25 sec.	Class 1, Div 2	PID - VOC	0 - 20.00 / 50.00 / 100 ppm	< 3 sec.	Class 1, Div 1
HCL	0 - 30 ppm	< 300 sec.	Class 1, Div 2	PID - VOC	0 - 20.00 / 50.00 / 100 ppm	< 3 sec.	Class 1, Div 1
HCN	0 - 30 ppm	< 70 sec.	Class 1, Div 2				
HF	0 - 10 ppm	< 90 sec.	Class 1, Div 2				
LEL	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 <sub>3</sub>	0 - 100 ppm	< 90 sec.	Class 1, Div 2				
NH <sub>3</sub>	0 - 300 ppm	< 120 sec.	Class 1, Div 2				

RKI Instruments, Inc. • 33248 Central Ave. Union City, CA 94587 • Phone (800) 754-5165 • (510) 441-5656 • Fax (510) 441-5650

World Leader In Gas Detection & Sensor Technology  
www.rkiinstruments.com

# AirLink 6940-XP Sensor Assembly

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
Compatible Controllers	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



Toll Free: (800) 754-5165 • Phone: (510) 441-5656  
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