



WIRELESS EXPLOSION PROOF TRANSMITTER

Gas Detection For Life

AirLink 6900



Features

- Electrochemical, PID, or IR sensors available
- Wireless communication
 - 900 MHz radio and 52 networks
 - 2.4 GHz radio and 78 networks
- Dual battery powered
- Battery life
 - 2-year maximum - electrochemical sensors
 - 1-year maximum low-power infrared sensors
- Graphical LCD with LED backlight, readable in sunlight
- 3 Push-button interface (ADD, MENU, SUB) with corresponding magnetic, non-intrusive switches
- Explosion/flame-proof certification for select gases
- 1-Year warranty
- Optional remote-mount sensor kit with enclosure

Industry Applications

- Petrochemical plants, refineries
- Water & wastewater treatment plants
- Pulp & paper mills
- Manufacturing facilities
- Chemical plants
- Construction
- Temporary or permanent applications

The RKI AirLink 6900 is a versatile truly wire free transmitter using electrochemical, PID or low-power infrared sensor elements to detect a variety of gases. Wireless, dual battery power (3.6 V Lithium-Thionyl Chloride battery) with 900 MHz or 2.4 GHz radio options. Magnetic switches allow for non-intrusive calibration as well as full system settings and diagnostics, while in the field.

Gas Type	Range	T ₉₀	Hazard Classification
AsH3	0 - 1 ppm	< 30 sec.	Class 1, Div 2
CL2	0 - 10 ppm	< 60 sec.	Class 1, Div 2
CLO2	0 - 1 ppm	< 120 sec.	Class 1, Div 2
CO	0 - 300 ppm	< 30 sec.	Class 1, Div 1
CO2-IR	0 - 1.5% Vol.	< 30 sec.	Class 1, Div 1
ETO	0 - 10 ppm	< 80 sec.	Class 1, Div 2
F2	0 - 1 ppm	< 80 sec.	Class 1, Div 2
H2S	0 - 100 ppm	< 30 sec.	Class 1, Div 2
H2S2K	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 CH4-IR	0 - 100% LEL CH4 (0 - 5% Vol.)	< 30 sec.	Class 1, Div 1
LEL HC-IR	0 - 100% LEL	< 30 sec.	Class 1, Div 1
NH3	0 - 100 ppm	< 90 sec.	Class 1, Div 2
NH3300	0 - 300 ppm	< 120 sec.	Class 1, Div 2
NH3A	0 - 1000 ppm	< 120 sec.	Class 1, Div 2

Gas Type	Range	T ₉₀	Hazard Classification
NO	0 - 250 ppm	< 40 sec.	Class 1, Div 2
NO2	0 - 20 ppm	< 25 sec.	Class 1, Div 2
O2	0 - 25% Vol.	< 15 sec.	Class 1, Div 1
O3	0 - 5 ppm	< 60 sec.	Class 1, Div 2
PH3	0 - 5 ppm	< 30 sec.	Class 1, Div 2
SO2	0 - 20 ppm	< 35 sec.	Class 1, Div 1
PID - VOC 10.6eV	0 - 10.00 / 20.00 / 50.00 ppm	< 3 sec.	Class 1, Div 1
PID - VOC 10.6eV	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
Operating Voltage	3.6V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-SOCl ₂) battery, with connector (non-rechargeable)
Power Type	Dual battery powered
Battery Life	1 Year Max. (low power infrared), 2 year Max. (electrochemical), 14+ days (PID)
RF Connection	External N-female radio frequency (RF) connector
Display Screen	102x64 Resolution graphical LCD screen transfective (sunlight readable) with LED backlight
Interface	3 Push-buttons (MENU, ADD and SUB) 3 Magnetic non-intrusive switches for calibration (MENU, ADD and SUB)
Customizable Settings	Adjustable background gas setting
Temperature Range	-40°C to +54°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 (2.4 GHz radio) 255 addresses per network
Remote Sensor Kit (Optional Feature)	Remote sensor kit available with enclosure (7 pin), available in lengths of up to 250 feet for (PID) and electrochemical and lengths of up to 40 feet for low power IR
Product Dimensions	5.42 in. L x 6.03 in. D x 17.03 in. H (Max. dimensions with attachments)
Total Weight	6 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.
Controllers	Compatible with AirLink 7010 and AirLink 7032
Warranty	1-Year warranty for electronics and sensor (Two months for PID with 11.7 eV lamp)
Battery Warranty	90 days from ship date