



STANDALONE TRANSMITTER

Gas Detection For Life

Air Alert



Features

- Electrochemical, Infrared, or PID sensor element
- Wire powered (3-wire), 12-35 VDC operating voltage, optional AC power supply
- Operating temperature range of -40°C to +70°C
- 3 Push-button interface (ADD, MENU, SUB) with 3 corresponding magnetic, non-intrusive switches
- 2 Dry contact relays (optional)
- Graphical LCD with LED backlight
- Output options: 4-20mA (3-wire) analog, RS-485 Modbus, optional 900 MHz or 2.4 GHz radio
- Optional 3 color LED perimeter and audible alarm
- 1-Year warranty

Industry Applications

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

The RKI Air Alert series ambient air toxic gas detector is a versatile assembly that uses an electrochemical, infrared or PID sensor element to detect a variety of gases. Wire powered (12 to 35 VDC) with 4-20 mA analog and RS-485 Modbus outputs. Magnetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics.

Gas	Sensor Type	Range	T ₉₀
AsH ₃	EC	0 - 1 ppm	< 30 sec.
CH ₂ O	EC	0 - 10 ppm	< 30 sec.
CH ₃ SH	EC	0 - 10 ppm	< 100 sec.
CH ₄	IR	0 - 100 ppm	< 30 sec.
CL ₂	EC	0 - 10 ppm	< 60 sec.
CLO ₂	EC	0 - 1 ppm	< 120 sec.
CO	EC	0 - 300 ppm	< 30 sec.
CO ₂	IR	0 - 5% Vol.	< 30 sec.
ETO	EC	0 - 10 ppm	< 80 sec.
F ₂	EC	0 - 1 ppm	< 80 sec.
H ₂	EC	0 - 4% Vol.	< 60 sec.
H ₂ S	EC	0 - 100 ppm	< 30 sec.
H ₂ S ₂ K	EC	0 - 2000 ppm	< 25 sec.
HBr	EC	0 - 30 ppm	< 40 sec.
HCL	EC	0 - 30 ppm	< 300 sec.
HCN	EC	0 - 30 ppm	< 70 sec.
HF	EC	0 - 10 ppm	< 90 sec.
LELCH ₄	IR	0 - 100% LEL (0 - 5% Vol.)	< 30 sec.
LELHC	IR	0 - w 100% LEL	< 30 sec.
NH ₃	EC	0 - 100 ppm	< 90 sec.
NH ₃ 300	EC	0 - 300 ppm	< 120 sec.

Gas	Sensor Type	Range	T ₉₀
NH ₃ A	EC	0 - 1000 ppm	< 120 sec.
NO	EC	0 - 250 ppm	< 40 sec.
NO ₂	EC	0 - 20 ppm	< 25 sec.
O ₂	EC	0 - 25% Vol.	< 15 sec.
O ₃	EC	0 - 5 ppm	< 60 sec.
O ₃ H	EC	0 - 100 ppm	< 60 sec.
PH ₃	EC	0 - 5 ppm	< 30 sec.
SO ₂	EC	0 - 20 ppm	< 35 sec.
R1234YF	IRR	0 - 2000 ppm	< 30 sec.
R22	IRR	0 - 2000 ppm	< 30 sec.
R32	IRR	0 - 2000 ppm	< 30 sec.
R410A	IRR	0 - 2000 ppm	< 30 sec.
RSF6	IRR	0 - 2000 ppm	< 30 sec.
PID - VOC	PID 10.6eV	0 - 10.00 / 20.00 / 50.00 ppm	< 3 sec.
PID - VOC	PID 10.6eV	0 - 100.00 / 200.00 / 500.00 / 1000 / 2000 ppm	< 3 sec.
PID - VOC	PID 10.0 eV	0 - 10.00 / 20.00 / 50.00 / 100 ppm	< 3 sec.
PID - VOC	PID 11.7 eV	0 - 20.00 / 50.00 / 100 ppm	< 3 sec.

Product Specifications	
Sensor Type	Electrochemical, infrared, PID
Power Voltage	Wire powered (2-wire) 12 to 35 VDC (Optional AC power supply)
Power Draw	2 Watts maximum
Protection	• Power electromagnetic interference (EMI) filter • 4-20 mA surge suppression • RS-485 surge suppression
Display Screen	102 x 64 Resolution graphical LCD screen transfective (sunlight readable) with white LED backlight
Interface	3 Push-buttons (MENU, ADD and SUB) 3 Magnetic non-intrusive switches for calibration (MENU, ADD and SUB)
Customizable Settings	2 Individually configurable relay set-points
Product add on Hardware	3 Color LED Perimeter Lights and audible alarm, optional. (this option not available with relay option)
Temperature Range	-40°C to +70°C
Wireless (Analog) Output	4-20 mA (3-wire) fault terminal
Digital Output	RS-485 Modbus Optional 900 MHz or 2.4 GHz radio wireless output
Product Dimensions	5 in. L x 5 in. W x 5 in. H
Total Weight	5 lbs.
Enclosure Material	NEMA Class I, 4, 4X, and 6 polycarbonate enclosure with clear window - IP 66, UL 508 and UL 746C (f1) rated
Construction	For use in non hazardous areas only
Controllers	Compatible with AirLink 7010, AirLink 7032, Beacon 110, Beacon 200, Beacon 410A, and Beacon 800
Warranty	1-Year warranty for electronics and sensor (Two months for PID with 11.7 eV lamp)

Specifications subject to change without notice.

Made in the USA



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RIKEN VIET
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