

## **TOXIC DIFFUSION SENSOR/TRANSMITTER**

## **Gas Detection For Life**

## **GD-K88Ai Series**



The GD-K88Ai is a diffusion style toxic gas detection transmitter ideally suited to meet a variety of toxic gas detection needs. You can choose from a wide range of electrochemical toxic gas sensors to install in this model. The GD-K88Ai includes easy to read LCD display and push button controls for calibration. When it is used with optional intrinsic safety barriers the GD-K88Ai is safe for use in hazardous locations. The low profile design is only 1.9 inches thick and is easy to install. The hinged housing makes it easy to maintain. This transmitter can be installed with any RKI controller, or integrated to existing PLC or DCS system via 4-20mA output (24VDC two-wire, loop powered).

At the heart of any gas detector is the sensor. The sensors for the GD-K88Ai are aged and tested over a one to three month period, typically resulting in a three to five year life span, providing a lower cost of ownership for your gas detection system. These fast-responding sensors are robust electrochemical type that feature higher sensitivity and selectivity.

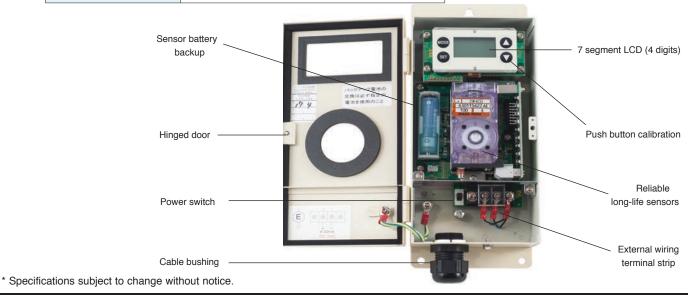
With over 75 years of sensor technology experience, RKI has the knowledge and capability to provide the most advanced detection techniques and manufacture the most stable and long lasting sensors in the world. As a result the GD-K88Ai is one of the most stable and long lasting toxic transmitters on the market.

## **GD-K88Ai Series**

Model	GD-K88Ai
Display	7-segment LCD (4 digits) for gas name and concentration
Transmission Method	2-wire analog transmission
Transmission Specifications	Analog transmission scheme: 4 - 20 mA DC (load resistance: 300 Ω or less) Digital transmission scheme:
Power Supply	15 - 27 VDC
Recommended Cable	Shielded cable of 16 AWG wires with shield
Transmission Distance	Up to 0.5 miles (up to 600 m between the detector head and I.S. Barrier)
Recommended Intrinsic Safety Barrier	Zener Barrier (MTL728ac/MTL728+/MTL728-) or Insulating Barrier (MTL5541/RN-221N-EJ/KFD2- SCD-EX1.LK)
Operating Temperature	-20 - 40°C (-4 -104 °F)
Operating Humidity	30 - 70%RH (Non-condensing)
Accuracy	+ / - 10% of reading or + / -5% of full scale (whichever is greater)
Structure	Box type/Wall mounted type
Protection Method	Intrinsically safe when used with appropriate Zener I.S. barrier
Intrinsic Safety Rating	ExiaIICT4
Intrinsic Safety certification number	TC20741(TIIS in Japan)
External Dimensions	Approx. 3.9 in (W) x 9.5 in (H) x 1.9 in (D) (projection portions excluded)
Weight	2 lb.
Warranty	1 year

Partial List of Detectable Gases		
Gas	Range	
Ammonia (NH3)	0 - 75.0 ppm	
Arsine (AsH3)	0 - 0.20 ppm	
Carbon Monoxide (CO)	0 - 150 ppm	
Chlorine (Cl2)	0 - 3.00 ppm	
Diborane (B2H6)	0 - 0.30 ppm	
Disilane (Si2H6)	0 - 15.0 ppm	
Germane (GeH4)	0 - 0.60 ppm	
Hydrogen Cyanide (HCN)	0 - 30.0 ppm	
Hydrogen Sulfide (H2S)	0 - 30.0 ppm (optional 0 - 1.00 ppm)	
Nitric Oxide (NO)	0 - 100.0 ppm	
Nitrogen Dioxide (NO2)	0 - 15.0 ppm	
Phosphine (PH3)	0 - 1.00 ppm	
Silane (SiH4)	0 - 15.0 ppm	
Sulfur Dioxide (SO2)	0 - 6.00 ppm	

Other gases or ranges available. Contact RKI if not listed





Authorized Distributor:

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