



# TOXIC DIFFUSION SENSOR/TRANSMITTER

Gas Detection For Life

GD-K8A Model



## Features

- Diffusion style head
- Low profile design
- Quick response sensors
- Many toxic sensors to choose from
- 3 to 5 year typical sensor life
- Easy maintenance
- Selective for target gas
- Low cost of ownership

## Applications

- Semiconductor manufacturing
- Petrochemical plants
- Refineries
- Water & wastewater treatment plants
- Pulp & paper mills
- Gas, telephone, & electric utilities
- Steel
- Automotive
- Refrigeration
- Food Storage
- Power Plants
- General Leak Detection

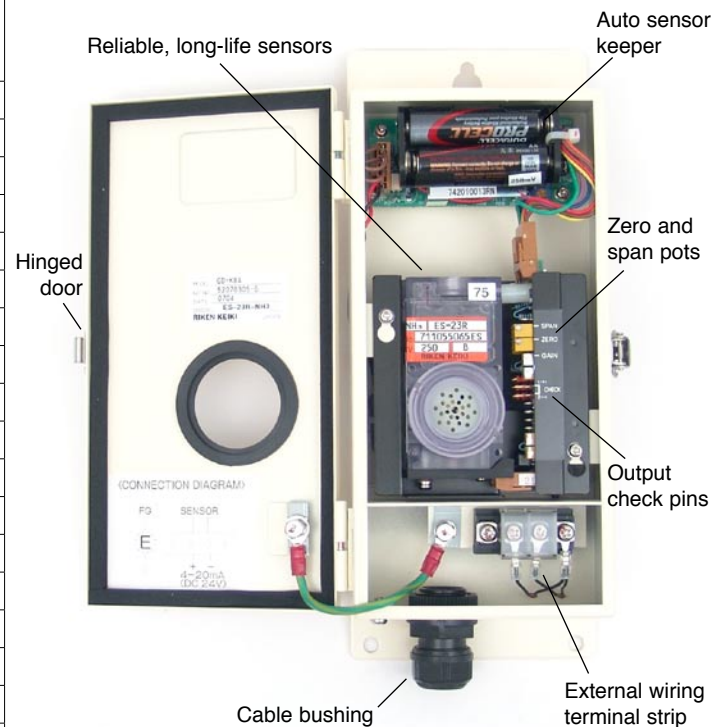
The GD-K8A is a diffusion style toxic gas detection transmitter ideally suited to meet your toxic gas detection needs. You can choose from a wide variety of toxic sensors to install in this model. The GD-K8A is an ideal solution for many toxic gas monitoring applications. The low profile design is only 1.5 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).

The sensors for the GD-K8A 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. The sensors are robust electrochemical type that feature higher sensitivity and selectivity. Fast sensor response time and excellent stability make these sensors the most reliable and longest-life electrochemical sensors available today.

At the heart of any gas detector is the sensor. With over 65 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-K8A is one of the most stable and long lasting toxic transmitters on the market.

<b>Model</b>	<b>GD-K8A</b>
<b>Detection method</b>	Electrochemical cell
<b>Sampling method</b>	Diffusion sampling type
<b>Output</b>	Linear 4-20 mA output
<b>Response Time</b>	60 seconds to 90%
<b>Sensor Life</b>	3 to 5 years, typical for most applications
<b>Operation temp. &amp; humidity</b>	0 ~ 40°C, 30 ~ 90% RH
<b>Enclosure</b>	Wall mounted, ordinary locations (optional IS version available)
<b>Power</b>	24 VDC
<b>Weight</b>	1.1 kg
<b>Warranty</b>	One year materials and workmanship

<b>Partial List Of Detectable Gases</b>	
Contact RKI for gases or ranges not listed	
Ammonia (NH <sub>3</sub> )	0 - 75.0 ppm
Arsine (AsH <sub>3</sub> )	0 - 0.20 ppm (0 - 1.0 ppm optional)
Bromine (Br <sub>2</sub> )	0 - 1.00 ppm
BTBAS	0 - 15 ppm
Chlorine (Cl <sub>2</sub> )	0 - 3.0 ppm
Chlorine Dioxide (ClO <sub>2</sub> )	0 - 1.00 ppm
Chlorine Trifluoride (ClF <sub>3</sub> )	0 - 1.00 ppm
Carbon Monoxide (CO)	0 - 150 ppm
Diborane (B <sub>2</sub> H <sub>6</sub> )	0 - 0.30 ppm
Fluorine (F <sub>2</sub> )	0 - 6.0 ppm
Hydrogen Chloride (HCl)	0 - 15.0 ppm
Hydrogen Cyanide (HCN)	0 - 30 ppm
Hydrogen Fluoride (HF)	0 - 9.0 ppm
Hydrogen Iodine (HI)	0 - 5 ppm
Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> )	0 - 3 ppm
Hydrogen Sulfide (H <sub>2</sub> S)	0 - 30.0 ppm or optional 0-1.00 ppm
Nitric Oxide (NO)	0 - 100.0 ppm
Nitrogen Dioxide (NO <sub>2</sub> )	0 - 15.0 ppm
Ozone (O <sub>3</sub> )	0 - 1.0 ppm
Phosphine (PH <sub>3</sub> )	0 - 1.0 ppm
Silane (SiH <sub>4</sub> )	0 - 15.0 ppm
Sulfur Dioxide (SO <sub>2</sub> )	0 - 10.0 ppm



\* Specifications subject to change without notice.



A9812



ISO 9001:2000

Toll Free: (800) 754-5165 • Phone: (510) 441-5656  
 Fax: (510) 441-5650 • [www.rkiinstruments.com](http://www.rkiinstruments.com)

**Authorized Distributor:**