

# RKI Sensor Specification

**Features:** Fast warm-up time  
Good zero stability  
Quick response time

## Hydrogen Sulfide (H<sub>2</sub>S)

**Part Number:** ES-1827-H<sub>2</sub>S  
**Sensor Application:** GX-2001, GX-2003,  
GasWatch 2

| Technical Specifications    |                                 |  |                     |
|-----------------------------|---------------------------------|--|---------------------|
| <b>Measuring Principle</b>  | Amperometric 2-electrode sensor | <b>Accuracy</b>  | +/- 10 % of reading |
| <b>Range of Measurement</b> | 0 – 100 ppm                     | <b>Repeatability</b>   | +/- 5% of reading   |
| <b>Resolution</b>           | 1% of full scale                | <b>T<sub>90</sub> Response time</b><br>(20°C, 2 min. exposure) | 90 seconds          |

| Operating Conditions |                           |                        |           |
|----------------------|---------------------------|------------------------|-----------|
| Temperature Range    | -20°C to +45°C            | <b>Life Expectancy</b> | 2-3 Years |
| Humidity Range       | 10-95% RH, Non Condensing | <b>Warranty</b>        | 1 Year    |

## Known Gas Interferences

| Gas  | PPM Gas Applied | Reading |
|--|-----------------|---------|
| Acetone ((CH <sub>3</sub> ) <sub>2</sub> CO) | 10,000          | 0.5     |
| Acetylene (C <sub>2</sub> H <sub>2</sub> )   | 41              | 10      |
| Ammonia (NH <sub>3</sub> )                   | 170             | 1       |
| Chlorine (Cl <sub>2</sub> )                  | 8.6             | -1      |
| Ethylene (C <sub>2</sub> H <sub>4</sub> )    | 280             | 10      |
| Hydrogen (H <sub>2</sub> )                   | 170             | 10      |

| Gas   | PPM Gas Applied | Reading |
|---|-----------------|---------|
| Hydrogen Chloride (HCl)   | 55              | 1       |
| Isopropyl Alcohol (IPA)<br>((CH <sub>3</sub> ) <sub>2</sub> CHOH) | 330             | 10      |
| Nitric Oxide (NO)   | 210             | 10      |
| Nitrogen Dioxide (NO <sub>2</sub> )                               | 46              | -10     |
| Ozone (O <sub>3</sub> )   | 3.8             | -1      |
| Sulfur Dioxide (SO <sub>2</sub> )                                 | 50              | 10      |