

RKI Sensor Specification

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

Part Number:
Sensor Application:

Chlorine (Cl₂)
ES-K239B-CL2
GD-K8A, GD-K7D2

| Technical Specifications | | | |
|--------------------------|---------------------------------|--|---|
| Measuring Principle | Amperometric 3-electrode sensor | Accuracy | +/- 10% of reading or +/- 5% of full scale (whichever is greater) |
| Range of Measurement | 0 -3 ppm | Repeatability | +/- 5% of reading |
| Resolution | 1% of full scale | T ₉₀ Response time (20°C, 2 min. exposure) | 90 seconds |

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

Known Gas Interferences

| Gas | PPM Gas Applied | Reading |
|-----------------------------------|-----------------|---------|
| Ammonia (NH ₃) | 39.7 ppm | 0.0 ppm |
| Bromine (Br ₂) | 10 ppm | 0.0 ppm |
| Carbon Dioxide (CO ₂) | 1.0% vol | 0.0 ppm |
| Carbon Monoxide (CO) | 100.2 ppm | 0.0 ppm |
| Chlorine (Cl ₂) | 0.8 ppm | 0.8 ppm |
| Fluorine (F ₂) | 2.0 ppm | 0.4 ppm |
| Halocarbon 14 (CF ₄) | 490 ppm | 0.0 ppm |
| Hydrogen (H ₂) | 100% vol | 0.0 ppm |
| Hydrogen Chloride (HCl) | 5.9 ppm | 0.0 ppm |

| Gas | PPM Gas Applied | Reading |
|---|-----------------|----------|
| Hydrogen Fluoride (HF) | 6.0 ppm | 0.0 ppm |
| Hydrogen Sulfide (H ₂ S) | 30.7 ppm | -0.3 ppm |
| Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH) | 1.3% vol | 0.0 ppm |
| Methane (CH ₄) | 100% vol | 0.0 ppm |
| Nitric Oxide (NO) | 101.2 ppm | 0.0 ppm |
| Nitrogen Dioxide (NO ₂) | 48.5 ppm | 0.1 ppm |
| Ozone (O ₃) | 0.5 ppm | 0.0 ppm |
| Phosphine (PH ₃) | 1.0 ppm | 0.0 ppm |
| Sulfur Dioxide (SO ₂) | 50.1 ppm | 0.0 ppm |