

RKI Sensor Specification

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

Carbon Monoxide (CO)

Part Number: ESM-011-CO
Sensor Application: SC-01

| Technical Specifications | | | |
|-----------------------------|---------------------------------|---|---|
| Measuring Principle | Amperometric 3-electrode sensor | Accuracy | +/- 10% of reading or +/- 5% of full scale (whichever is greater) |
| Range of Measurement | 0 – 75 ppm | Repeatability | +/- 5% of reading |
| Resolution | 1% of full scale | T₉₀ Response time (20°C, 2 min. exposure) | 60 seconds |

| Operating Conditions | | | |
|----------------------|---------------------------|------------------------|-----------|
| Temperature Range | -10°C to +40°C | Life Expectancy | 2-3 Years |
| Humidity Range | 10-95% RH, Non Condensing | Warranty | 1 Year |

Known Gas Interferences (with charcoal filter)

| Gas | PPM Gas Applied | Reading |
|--|-----------------|---------|
| Acetone (CH ₃) ₂ CO | 0.9% Vol. | -0.2 |
| Ammonia (NH ₃) | 251.0 | 0.1 |
| Chlorine (Cl ₂) | 1.8 | -1.0 |
| Ethane (C ₂ H ₆) | 99.7% Vol. | 135.4 |
| Ethanol (C ₂ H ₅ OH) | 0.2% Vol. | -0.2 |
| Ethylene (C ₂ H ₄) | 399.6 | 39.9 |
| Hydrogen (H ₂) | 101.5 | 4.4 |

| Gas | PPM Gas Applied | Reading |
|-------------------------------------|-----------------|---------|
| Hydrogen Sulfide (H ₂ S) | 5.0 | 0.6 |
| Hydrogen Chloride (HCl) | 16.0 | -0.4 |
| Methanol (CH ₃ OH) | 0.7% Vol. | -0.2 |
| Nitric Oxide (NO) | 100.0 | 1.8 |
| Nitrogen Dioxide (NO ₂) | 39.1 | 2.2 |
| Ozone (O ₃) | 1.8 | -0.8 |
| Sulfur Dioxide (SO ₂) | 25.0 | 0.5 |

| Part # Prefix | Applicable Instruments |
|---------------|------------------------|
| ESM | SC-01 |