

# RKI Sensor Specification

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

## Carbon Monoxide (CO)

**Part Number:** ES/ESM/ESU-23-CO  
**Sensor Application:** GD-K8A, GD-K7D2, Eagle, GD-K71D, GD-K77D, GD-70D

Technical Specifications			
<b>Measuring Principle</b>	Amperometric 3-electrode sensor	<b>Accuracy</b>	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
<b>Range of Measurement</b>	0 – 75, 150, 300 ppm	<b>Repeatability</b>	+/- 5% of reading
<b>Resolution</b>	1% of full scale	<b>T<sub>90</sub> Response time (20°C, 2 min. exposure)</b>	90 seconds

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

## Known Gas Interferences

Gas	PPM Gas Applied	Reading
Carbon Monoxide (CO)	5% Vol.	1.00
Ethane (C <sub>2</sub> H <sub>6</sub> )	62.00	1.00
Ethylene (C <sub>2</sub> H <sub>4</sub> )	10.00	1.00
Hydrogen (H <sub>2</sub> )	50.00	1.00
Hydrogen Sulfide (H <sub>2</sub> S)	20.00	0.00
IsoButane (C <sub>4</sub> H <sub>10</sub> )	1% Vol.	0.00

Gas	PPM Gas Applied	Reading
Methane (CH <sub>4</sub> )	5% Vol.	0.00
Nitric Oxide (NO)	25.00	54.00
Nitrogen Dioxide (NO <sub>2</sub> )	10.00	-3.00
Propylene (C <sub>3</sub> H <sub>6</sub> )	10.00	1.00
Sulfur Dioxide (SO <sub>2</sub> )	21.00	0.00

Part # Prefix	Applicable Instruments
ES	GD-K8A, GD-K7D2, Eagle
ESM	GD-K71D, GD-K77D
ESU	GD-70D