

RKI Sensor Specification

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

Carbon Monoxide (CO) with filter

Part Number: ES-231-CO w/ filter
Sensor Application: EAGLE, Fixed Systems

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 100 ppm	Repeatability	+/- 5% of reading
Resolution	1% of full scale	T₉₀ 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
Acetone ((CH ₃) ₂ CO)	1.60 % vol	25 ppm
Acetylene (C ₂ H ₂)	19 ppm	25 ppm
Arsine (AsH ₃)	2.5 ppm	25 ppm
Carbon Dioxide (CO ₂)	5.00 % vol	0 ppm
Ethanol (C ₂ H ₅ OH)	43 ppm	25 ppm
Ethylene (C ₂ H ₄)	110 ppm	25 ppm
Hydrogen (H ₂)	530 ppm	25 ppm
Hydrogen Sulfide (H ₂ S)	1.7 ppm	25 ppm
Isopropyl Alcohol (IPA) ((CH ₃) ₂ CHOH)	35 ppm	25 ppm

Gas	PPM Gas Applied	Reading
Methane (CH ₄)	5000 ppm	0 ppm
Methanol (CH ₃ OH)	85 ppm	25 ppm
Nitric Oxide (NO)	8.0 ppm	25 ppm
Nitrogen Dioxide (NO ₂)	12 ppm	-25 ppm
Ozone (O ₃)	11 ppm	-25 ppm
Phosphine (Ph ₃)	2.5 ppm	25 ppm
Silane (SiH ₄)	2.7 ppm	25 ppm
Sulfur Dioxide (SO ₂)	9.2 ppm	25 ppm