

RKI Sensor Specification

Acetic Acid

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

Part Number: ES/ESM/ESU-K233-CH3COOH
Sensor Application: Eagle, GD-K8A, GD-K7D2, GD-K71D, GD-K77D, GD-70D

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10% of reading or +/- 5% of full scale (whichever is greater)
Range of Measurement	0 – 30 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 ((CH3)2CO)	1% Vol	0.0
Ammonia (NH3)	39.4	0.0
Arsine (AsH3)	1	0.0
Bromine (Br2)	1	19
Butane (C4H10)	1.0% Vol	0.0
Carbon Dioxide (CO2)	1.0 % Vol	0.0
Carbon Monoxide (CO)	286.6	0.0
Chloroform (CHCl3)	0.69% Vol	0.0
Chlorine (Cl2)	0.8	15
Chlorine Trifluoride (ClF3)	1	17
Diborane (B2H6)	10	0.0
Disilane (Si2H6)	10	0.0
Ethanol (C2H5OH)	10% Vol	0.0
Fluorine (F2)	2.0	24
Flon 14 (CF4)	1% Vol	0.0
Flon 16 (C2F6)	1% Vol	0.0
Hydrogen (H2)	99.9% Vol	0.0
Hydrogen Bromide (HBr)	5.6	3.8

Gas	PPM Gas Applied	Reading
Hydrogen Chloride (HCl)	3.0	38
Hydrogen Cyanide (HCN)	20	-7.5
Hydrogen Fluoride (HF)	6	86
Hydrogen Sulfide (H2S)	32.8	-1.9
Isopropyl Alcohol (IPA) ((CH3)2CHOH)	3.0% Vol	0.0
Iodine (I2)	1	15
Methane (CH4)	99.9% Vol	0.0
Methanol (CH3OH)	10% Vol	0.0
Nitric Acid (HNO3)	5.0	32
Nitric Oxide (NO)	102.4	0.0
Nitrogen Dioxide (NO2)	101	56
Nitrogen Trifluoride (NF3)	1.0	0.0
Ozone (O3)	5	66
Phosgene (COCl2)	1	0.0
Phosphine (Ph3)	1.1	0.0
Silane (SiH4)	10	0.0
Sulfur Dioxide (SO2)	10	37.5

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