

RKI Sensor Specification

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

Ammonia (NH₃)
Part Number: ES-23PX-NH3
Sensor Application: EAGLE, Fixed Systems

Technical Specifications			
Measuring Principle	Amperometric 3-electrode sensor	Accuracy	+/- 10 % of reading
Range of Measurement	0 – 75 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
Acetic Acid (CH ₃ COOH)	30.0	-24.0
Acetone ((CH ₃) ₂ CH)	1% vol.	0.0
Carbon Dioxide (CO ₂)	1.6% vol.	-8.0
Carbon Monoxide (CO)	300.0	0.0
Carbon Tetrafluoride (CF ₄)	1% vol.	0.0
Chlorine (Cl ₂)	2.7	-3.0
Ethanol (C ₂ H ₅ OH)	1% vol.	0.0
Fluorine (F ₂)	5.0	-10.0
Hexafluoroethane R-116 (C ₂ F ₆)	1% vol.	0.0
Hydrogen (H ₂)	5% vol.	3.0
Hydrogen Chloride (HCl)	9.0	-21.0
Hydrogen Cyanide (HCN)	10.0	0.0

Gas	PPM Gas Applied	Reading
Hydrogen Fluoride (HF)	6.0	-34.0
Hydrogen Sulfide (H ₂ S)	30.0	0.0
I.P.A. ((CH ₃) ₂ CHOH)	1.0% vol.	0.0
IsoButane (C ₄ H ₁₀)	1% vol.	0.0
Methane (CH ₄)	10% vol.	0.0
Methanol (CH ₃ OH)	1% vol.	0.0
Nitric Acid (HN0 ₃)	9.0	-9.0
Nitric Oxide (NO)	100.0	0.0
Nitrogen Dioxide (NO ₂)	7.7	-3.0
Nitrogen Trifluoride (NF ₃)	50.0	0.0
Ozone (O ₃)	10.0	-3.0
Phosphoric Acid (H ₃ PO ₄)	50.0	-0.3