

RKI Sensor Specification

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

Nitrogen Dioxide (NO2)

Part Number: ES/ESM/ESU-23AH-NO2/NF3
Sensor Application: GD-K11D6, GD-K77DG,
 GD-70DP

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 ((CH ₃) ₂ CO)	1% Vol.	0.0
Ammonia (NH ₃)	50.0	0.0
Chlorine (Cl ₂)	0.5	0.9
Ethanol (C ₂ H ₅ OH)	1% Vol.	0.0
Fluorine (F ₂)	5.0	3.7
Hydrogen (H ₂)	2% Vol.	-1.2
Hydrogen Chloride (HCl)	4.4	-0.6
Hydrogen Fluoride (HF)	6.0	0.2

Gas	PPM Gas Applied	Reading
Hydrogen Sulfide (H ₂ S)	1.2	-1.7
I.P.A. ((CH ₃) ₂ CHOH)	1% Vol.	0.0
Nitric Oxide (NO)	103.0	4.0
Nitrogen Trifluoride (NF ₃)	20.0	0.0
Ozone (O ₃)	1.5	4.2
Sulfur Dioxide (SO ₂)	15.9	0.0
Toluene (C ₆ H ₅ CH ₃)	1% Vol.	0.0
Trichloroethylene (CHCl:CCl ₂)	1% Vol.	0.0

Part # Prefix	Applicable Instruments
ES	GD-K11DG
ESM	GD-K77DG
ESU	GD-70DP