DAVITEQ AMMONIA NH3 GAS SENSOR, 100 PPM, SERI-4

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Sensor type	Daviteq Seri-4 electrochemical gas sensor
Nominal range	0-100 ppm
Maximum overload	200 ppm
Resolution	0.1 ppm
T90 response time	< 35 s
Typical Baseline Range (pure air, 20°C)	-3.0 ppm .. + 3.0 ppm
Repeatability	< 3% of reading
Accuracy	5% of Reading
Zero Stability	0 .. 0.2 ppm in pure Air, 20oC
Temperature compensation	Yes
WORKING CONDITIONS	
Relative humidity range	15 % to 90 % RH non-condensing
Temperature range	-10 °C to 50 °C
Pressure range	Atmospheric ± 10%
Humidity effect (Abrupt changes in rel. humidity causes a short-term transient signal)	< 4 ppm
SENSOR LIFETIME	
Expected Operation Life	2 years in the air
Expected Long-Term Output Drift in air	< 5 % of reading loss per 6 months

CROSS SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Concentration (ppm)	Reading (ppm)
Cl2	20	-55
CO	300	0
CO2	20000	0

H2	200	0
H2S	20	7
NO	20	-1
NO2	20	-20
SiH4	10	0
SO2	20	-7

Important Application Notes

Long-term exposures at high concentrations of SO2, H2S, NO, NO2, and Cl2 can affect the performance characteristics.

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