

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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