Ammonia Gas Sensor with Analog output AV10-G4-NH3

SKU: AV10-G4-NH3

Doc No: AV10-G4-NH3-DS-EN-10

Introduction

AV10-G4-NH3 is an electrochemical-type gas sensor with a high sensitivity to low concentrations of NH3 gas, high selectivity, and a stable baseline. It is powered by a power supply of 15..36VDC and gives analog output 0-10VDC for easy integration.

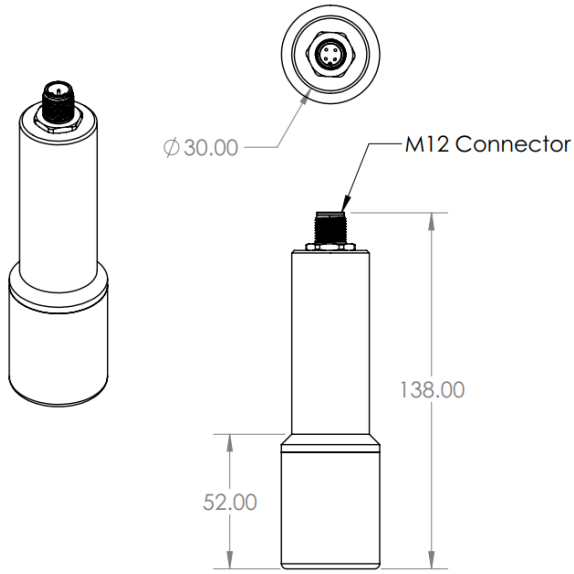
- High accuracy and stability;
- Wide range of Power Supply;
- Filter & Protector;
- Plug & Play.

Typical Applications

Ambient Gas Monitoring in Facilities, Farm, Building, Factory, City...

- Indoor Air Quality monitoring;
- HVAC Control;
- Greenhouse;
- Smart Agriculture.
- Gas Leak Detector.





Specification

SENSOR SPECIFICATION	
Sensor type	Daviteq Seri-4 electrochemical gas sensor
Nominal range	0-1000ppm
Resolution	0.1 ppm
Instability	+/- 0.66 ppm
T90 response time	< 35 s

Repeatability	< 3% of reading
Linearity	5% of full scale
Temperature compensation	Yes
Relative humidity range	15 % to 90 % RH non-condensing
Temperature range	-10 °C to 50 °C
Pressure range	Atmospheric ± 10%
Expected Operation Life	2 years in clean air
Expected Long-Term Output Drift in air	< 5 % of reading loss per 6 months
Filter & Protector	Nylon filter
Sensor housing / Rating	Plastic / IP67
OTHER SPECIFICATION	
Output	0..10VDC
Power supply	15..36VDC, avg. < 100mA
Connector	M12-female 4-pin Code A
Housing	Thermal Plastic
Housing Rating	IP67 (electronics housing and connector)
Dimension	H138xD30
Net weight	<200 grams

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

ORDERING CODE

Item code	Descriptions
AV10-G4-NH3-1000-01	ANALOG OUTPUT 0-10VDC AMMONIA GAS NH3 SENSOR, 0-1000PPM, 15..36VDC SUPPLY, M12-F CONNECTOR
CALGAS-NH3-02	CALIBRATION CHARGES FOR GAS SENSOR, 2-POINT CALIBRATION

Please select below M12 cable with different lengths	
2M-MM12CAB4X0.25	M12 4PIN MALE ASSEMBLY CONNECTOR WITH SOLDERING TERMINALS AND CODING A AND CONTROL CABLE CU/PVC/OS/PVC 4X0.25MM2, L=2M, ROHS, SHIELD 80%
5M-MM12CAB4X0.25	M12 4PIN MALE ASSEMBLY CONNECTOR WITH SOLDERING TERMINALS AND CODING A AND CONTROL CABLE CU/PVC/OS/PVC 4X0.25MM2, L=5M, ROHS, SHIELD 80%
10M-MM12CAB4X0.25	M12 4PIN MALE ASSEMBLY CONNECTOR WITH SOLDERING TERMINALS AND CODING A AND CONTROL CABLE CU/PVC/OS/PVC 4X0.25MM2, L=10M, ROHS, SHIELD 80%

⚠ Link for full datasheet:

⚠ Link for manual:

Daviteq Technologies Inc

www.daviteq.com | info@daviteq.com

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