

CO2 Gas Sensor with Analog output AV10-CO2

SKU: AV10-CO2

Doc No: AV10-CO2-DS-EN-10

Introduction

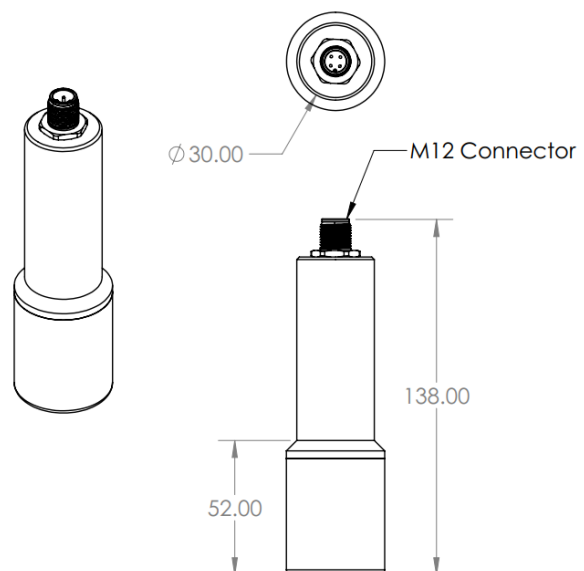
AV10-CO2 sensor utilizes CMOSens® Technology for IR detection enabling carbon dioxide measurements of the highest accuracy at a competitive price. Along with the NDIR measurement technology for detecting CO2 comes a best-in-class humidity and temperature sensor integrated into the same sensor module. Special algorithm expertise can measure ambient humidity and temperature by modeling and compensating external heat sources without needing additional components. 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

Carbon Dioxide is a key indicator of indoor air quality. Thanks to new energy standards and better insulation, houses have become increasingly energy-efficient, but the air quality can deteriorate rapidly. Active ventilation is needed to maintain a comfortable and healthy indoor environment and improve the well-being and productivity of the inhabitants. Daviteq sensor solutions offer accurate and stable monitoring of CO2 in the air and temperature and humidity. This enables our customers to develop new solutions that increase energy efficiency and simultaneously support the well-being of everyone.

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



Specification

SENSOR SPECIFICATION	
Sensor type	Ultra-low power NDIR sensor
Nominal range	0-5000ppm

Resolution	1 ppm
Accuracy	+/- 30ppm + 3% reading
Repeatability	+/- 10ppm
Response Time	< 30s
Temperature compensation	Yes
Relative humidity range	0 % to 95 % RH non-condensing
Temperature range	0 °C to 50 °C
Pressure range	Atmospheric ± 10%
Expected Operation Life	up to 10 years in clean air
Expected Long-Term Output Drift in air	
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	

ORDERING CODE

Item code	Descriptions
AV10-CO2-5000-01	ANALOG OUTPUT 0-10VDC CO2 GAS SENSOR, 0-5000PPM, 15..36VDC SUPPLY, M12-F CONNECTOR
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:](#)



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