Gas Sensor with Modbus output MBRTU-G4

Introduction

MBRTU-G4 is an electrochemical-type gas sensor with a high sensitivity to low concentrations of detected gas, high selectivity, and a stable baseline. The device supports different types of gas such as CO, NO, NO2, H2S, NH3, O2, O3, SO2, Cl2, and HCHO...It is powered by a wide range of power supplies 7..48VDC and gives output via RS485 ModbusRTU.

- High accuracy and stability;

- Wide range of Power Supply;

- Sintered metal filter to protect sensor;

- Optional splash guard to protect the sensor from water injection;

- Standard ModbusRTU output;

- Plug & Play.

Typical Applications

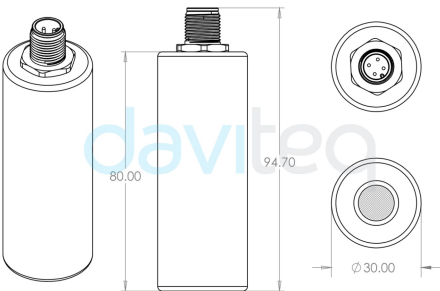Ambient Gas Monitoring in Facilities, Farm, Building, Factory, City...

- Indoor Air Quality monitoring;

- HVAC Control;

- Greenhouse;

- Smart Agriculture.

NH3 SENSOR WITH MODBUS OUTPUT
MBRTU-NH3

MBRTU-NH3-H1.JPG

DIMENSION DRAWING OF CO2 SENSOR
(Unit: mm)

80.00

94.70

∅ 30.00

MBRTU-CO2-H2.PNG

Specification

SENSOR SPECIFICATION	
Gas sensor type and specification	List of compatible gas sensors and specification
Sensor housing / Rating	SS316/SS304 housing with 316SS sintered filter for Indoor use (buy the optional accessory rain guard for outdoor installation or splash guard for water injection)
OTHER SPECIFICATION	

Communication Port	RS485, ModbusRTU protocol, max 19200 baud
Power supply	9..36VDC, avg. < 200mA
Connector	M12-male 4-pin Code A
Working temperature	0 .. 50 oC
Working humidity	15 .. 90% RH
Housing	316SS/304SS/Thermal Plastic
Rating	Indoor use
Dimension	H150xD30
Mounting	SS304 L type bracket for wall mounting
Net weight	<200 grams

Ordering Code

Item code	Descriptions
MBRTU-G4-NH3-100-01	MODBUSRTU OUTPUT AMMONIA GAS NH3, 0-100PPM, RS485/MODBUSRTU, 7..48VDC SUPPLY, M12-M CONNECTOR
MBRTU-G4-H2S-50-01	MODBUSRTU OUTPUT H2S GAS, 0-50PPM, RS485/MODBUSRTU, 7..48VDC SUPPLY, M12-M CONNECTOR
Please select below M12 cable with different lengths	
2M-FM12CAB4X0.25	M12 4PIN FEMALE ASSEMBLY CONNECTOR WITH SOLDERING TERMINALS AND CODING A AND CONTROL CABLE CU/PVC/OS/PVC 4X0.25MM2, L=2M, ROHS, SHIELD 80%
5M-FM12CAB4X0.25	M12 4PIN FEMALE ASSEMBLY CONNECTOR WITH SOLDERING TERMINALS AND CODING A AND CONTROL CABLE CU/PVC/OS/PVC 4X0.25MM2, L=5M, ROHS, SHIELD 80%
10M-FM12CAB4X0.25	M12 4PIN FEMALE 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:

🕓 Revision #3
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