

# Gas Sensor with Modbus output

## MBRTU-G4

SKU: MBRTU-G4

Doc No: MBRTU-G4-DS-EN-10

### 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...

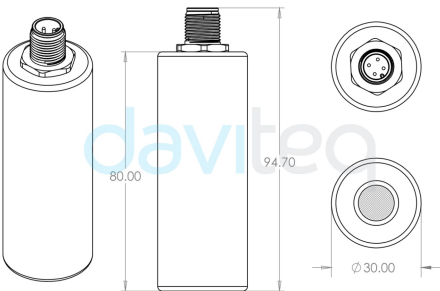
- Indoor Air Quality monitoring;
- HVAC Control;
- Greenhouse;
- Smart Agriculture.

NH3 SENSOR WITH MODBUS OUTPUT  
MBRTU-NH3



MBRTU-NH3-H1.JPG

DIMENSION DRAWING OF CO2 SENSOR  
(Unit: mm)



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:](#)

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