

# 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...

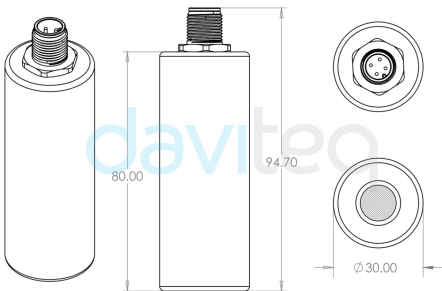
- Indoor Air Quality monitoring;
- HVAC Control;
- Greenhouse;
- Smart Agriculture.

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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