

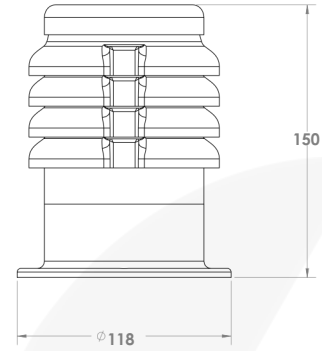
Modbus Relative Humidity Sensor

Overview

Modbus Relative Humidity Sensor, sensors work based on capacitive, resistive or thermal properties. They are sensors that convert electrical signals into changes in the amount of humidity in the air and connect to devices such as microcontrollers or data loggers and transmit the data of the relative humidity amount digitally to the master device with instantaneous Modbus RTU communication protocol. These sensors usually consist of components capable of making precise measurements.

Application Areas

- Solar Power Plant
- Agricultural Fields
- Greenhouse Applications
- Meteorological Measurement
- Industrial Applications
- Wind Power Plant
- Highways and Bridges
- Ship weather station
- Airports



Specifications




Electrical Specifications

Measurement Range	: 0 ... 100%RH
Resolution	: 0.1°
Truth	: ±1.0 % RH
Temperature Response Time	: 2 s
Temperature Accuracy	: 0.1 °C
Operating Temperature Range	: -40 to 125 °C
Measurement Principle	: Capacitive
Protocol and Connection Output	: Modbus RTU Rs-485
Supply Voltage	: 9-28 V DC
Current Consumption	: 25 mA @24 VDC

Mechanical Specifications

Dimensions	: Ø118 x 150 mm
Protective Case	: Resistant Aluminium
Ladle	: UV Abs
Protection	: IP 65 , UL 94

Cable and Connection Specifications

Cable Length	: 2 m	
Connector Type	: M8	
Cable and Connector Protection Class	: IP 69K	
White	: 9-28 V DC (+)	
Brown	: GND (DC)	
Yellow	: Data (+)	
Green	: Data (-)	