Product Name : Modbus RTU Wind Direction Sensor

Product Code : WDS-MB

Overview

The Modbus RTU wind direction sensor measures wind direction in the range of 0–359° with 1° resolution. Featuring a robust aluminum housing, it is suitable for outdoor applications. Using the RS485 communication protocol, it allows easy integration with data acquisition systems, data loggers, SCADA, PLC, and automation systems.



Application Areas

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

Electrical Specifications

Measurement Range	: 0° ~ 359.9°
Accuracy	: 0.1°
Resolution	: ± 2%
Operating Temperature	: -35°C ~ 80°C
Measurement Principle	: Magnetic Effect
Protocol and Connection Output	: Modbus RTU RS-485
Supply Voltage	: 9-48 V DC
Current Consumption	: 10 mA @24 VDC

Mechanical Specifications

Dimensions	: Ø95 x 240 x 345 mm
Protective Case	: Aluminum
Ladle	: Plexiglass, Aluminum, Stainless
Protection	: IP 65

Cable and Connection Specifications

Cable Length	: 3 m	
Connector Class	: IP 67	
White	: 9- 48 V DC (+)	○
Brown	: GND (-)	●
Yellow	: Data (+)	●
Green	: Data (-)	●

Technical Specifications



