

Precision-grade wind direction sensor for industrial and meteorological applications. Durable anodized aluminum and stainless steel construction ensures long-term accuracy and resistance to harsh conditions. Features high sensitivity, low power consumption, and two output options: analog and digital.



Features

- High measurement accuracy
- Resistant to extreme weather conditions,
 UV radiation, and corrosion
- High level of protection against dust and moisture
- Low power consumption
- Measurement based on magnetic field sensing
- Maintenance-free operation

Applications

- Wind speed measurements on masts
- Wind turbine control
- Meteorology and climatology
- Water sports, aviation, and skiing
- Traffic and transport management
- Agriculture and technical infrastructure







Performance Specifications

Range 0...360 °

Resolution 0.1°

Output Signal FD-WD100D FD-WD100A

Signal Type

RS485

MODBUS protocol

0...2.5VDC

Connector (socket) M12 male connector, 4-pin configuration

Connector (plug)

M12 female plug, straight, 4-pin configuration

Power Supply FD-WD100D FD-WD100A

Supply voltage 6...30 VDC

Current consumption 9 mA @ 12 VDC 12 mA @ 12 VDC

Surge protection Transient Voltage Suppressor (TVS)

Short-circuit and overload protection Polymeric Positive Temperature Coefficient fuses (PPTC)

Environmental

Operating temperature range -40°C...+70°C

Operating humidity range 0...100% RH

Compliance CE Declaration







Physical

Housing material anodized aluminum, stainless steel

Vane material anodized aluminum, nickel-plated brass

Ingress protection (IP)

Weight 345 g

Shipping weight 690 g

Shipping dimensions 320 x 100 x 230 [mm]

Installation

Mounting tube Ø28-30

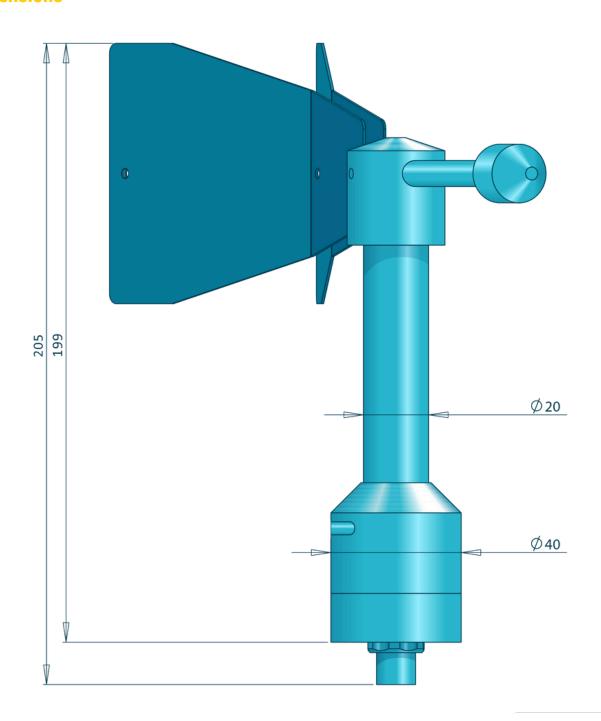




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Dimensions









Dimensions

