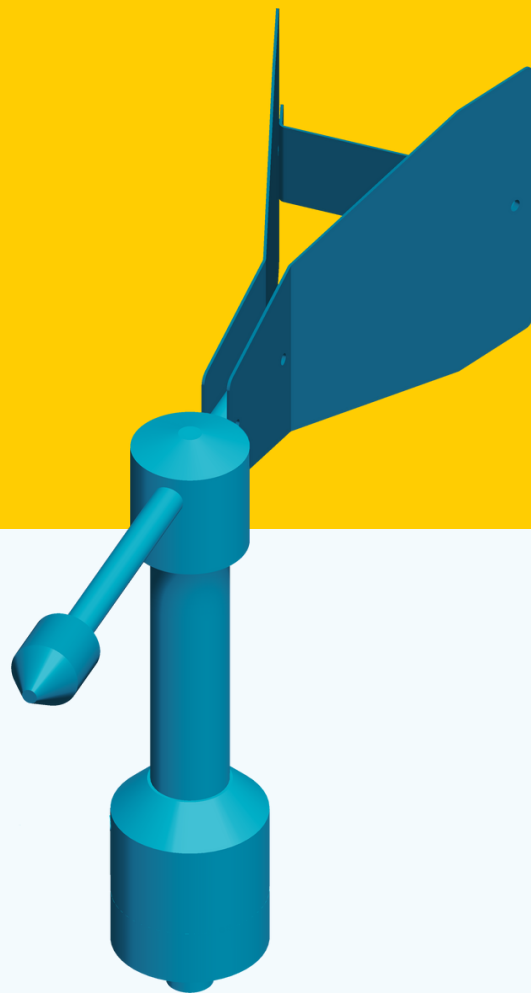


Wind Direction FD-WD100

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

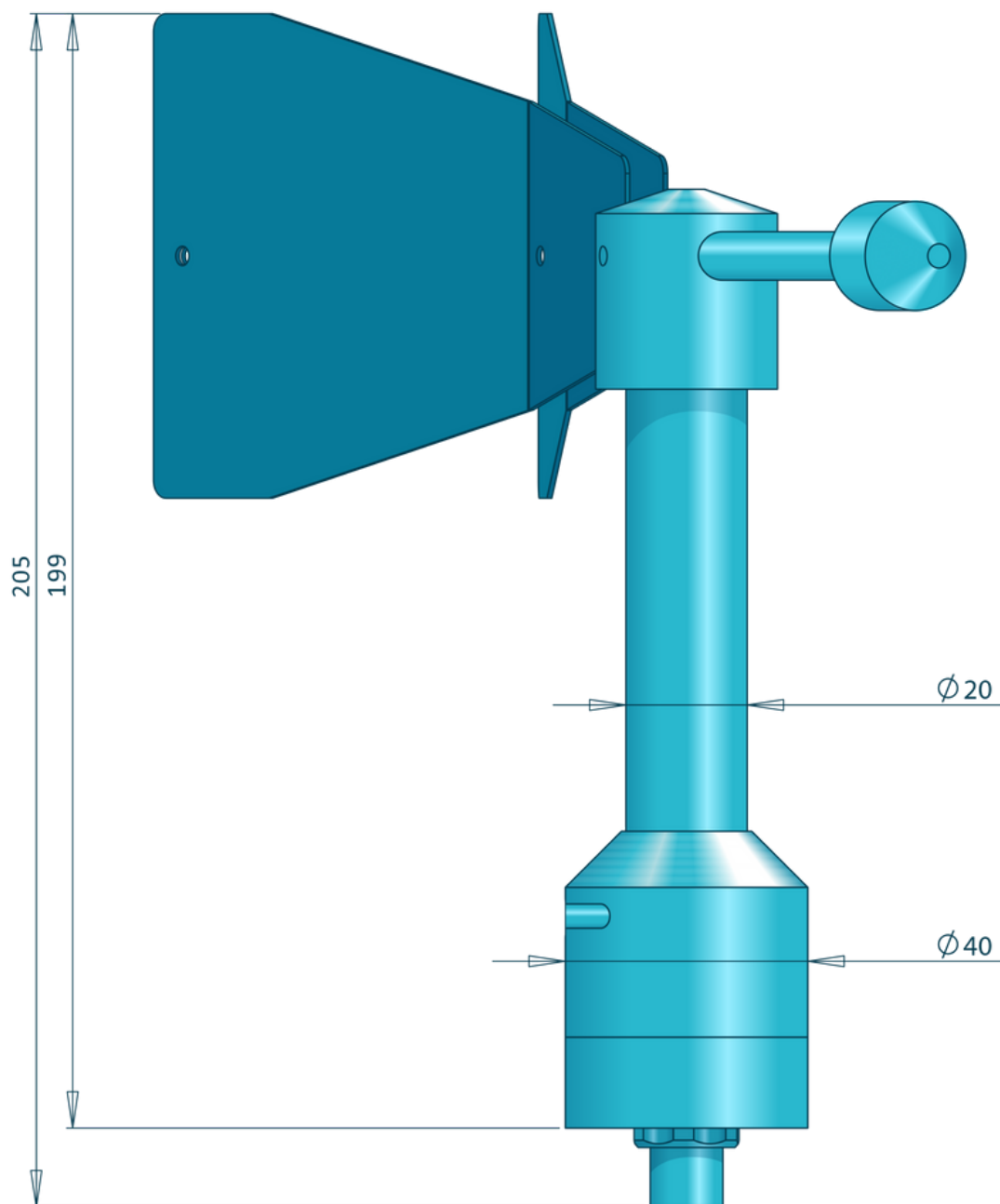
Housing material	anodized aluminum, stainless steel
Vane material	anodized aluminum, nickel-plated brass
Ingress protection (IP)	IP64
Weight	345 g
Shipping weight	690 g
Shipping dimensions	320 x 100 x 230 [mm]

Installation

Mounting	tube Ø28-30
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Dimensions



Dimensions

