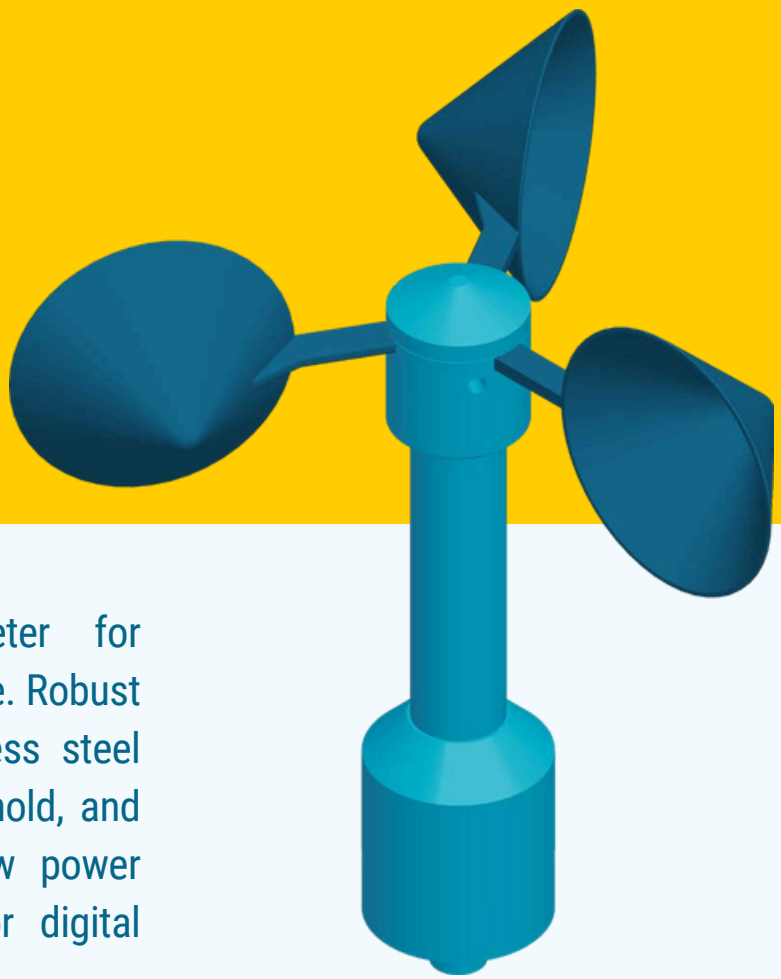
FARDATA

Cup Anemometer
FD-AN100



High-precision cup anemometer for industrial and meteorological use. Robust anodized aluminum and stainless steel construction, low starting threshold, and stable long-term accuracy. Low power design, available with pulse or digital output for seamless integration.

Features

- Low starting threshold
- High measurement accuracy
- Resistant to extreme weather conditions, UV radiation, and corrosion
- High level of protection against dust and moisture
- Low power consumption
- Optoelectronic measurement method
- Calibration aviable in acredited laboratories (MEASNET, PCA)

Applications

- Wind speed measurements on masts
- Wind turbine control
- Safety and alert systems
- Meteorology and climatology
- Water sports, aviation, and skiing
- Roadside meteorological protection

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Performance Specifications

Range	0.5...55 m/s
Resolution	0.1 m/s
Accuracy	1.5% to 20 m/s 2% above 20 m/s
Transfer function	10 pulses = 1.5 m/s

Output Signal

	FD-AN100D	FD-AN100P
Signal Type	RS485 MODBUS protocol	NPN & PNP open collector
Max switching volume	-	36 V
Max switching current	-	50 mA
Connector (socket)	M12 male connector, 4-pin configuration	
Connector (plug)	M12 female plug, straight, 4-pin configuration	

Power Supply

	FD-AN100D	FD-AN100P
Supply voltage	6...30 VDC	
Current consumption	9 mA @ 12 VDC	2 mA @ 12 VDC
Surge protection	Transient Voltage Suppressor (TVS)	
Short-circuit and overload protection	Polymeric Positive Temperature Coefficient fuses (PPTC)	

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Environmental

Operating temperature range	-40°C...+70°C
Operating humidity range	0...100% RH
Compliance	CE Declaration

Physical

Housing material	anodized aluminum, stainless steel
Rotor material	polypropylene, anodized aluminum
Ingress protection (IP)	IP64
Overall height	195 mm
Swept diameter of rotor	190 mm
Weight	260 g
Shipping weight	710 g
Shipping dimensions	260 x 220 x 180 [mm]

Installation

Mounting	tube Ø28-30

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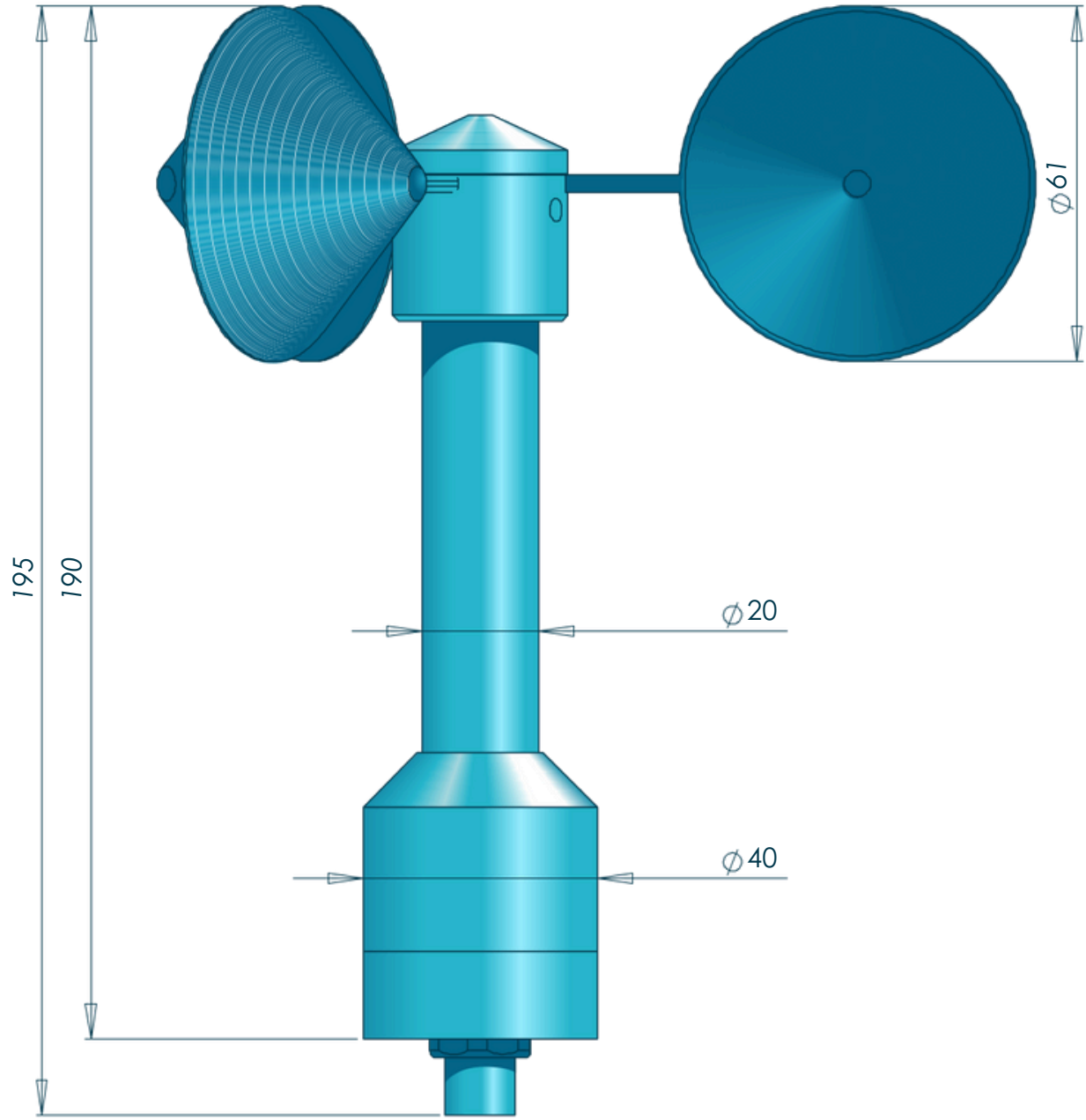
Dimensions



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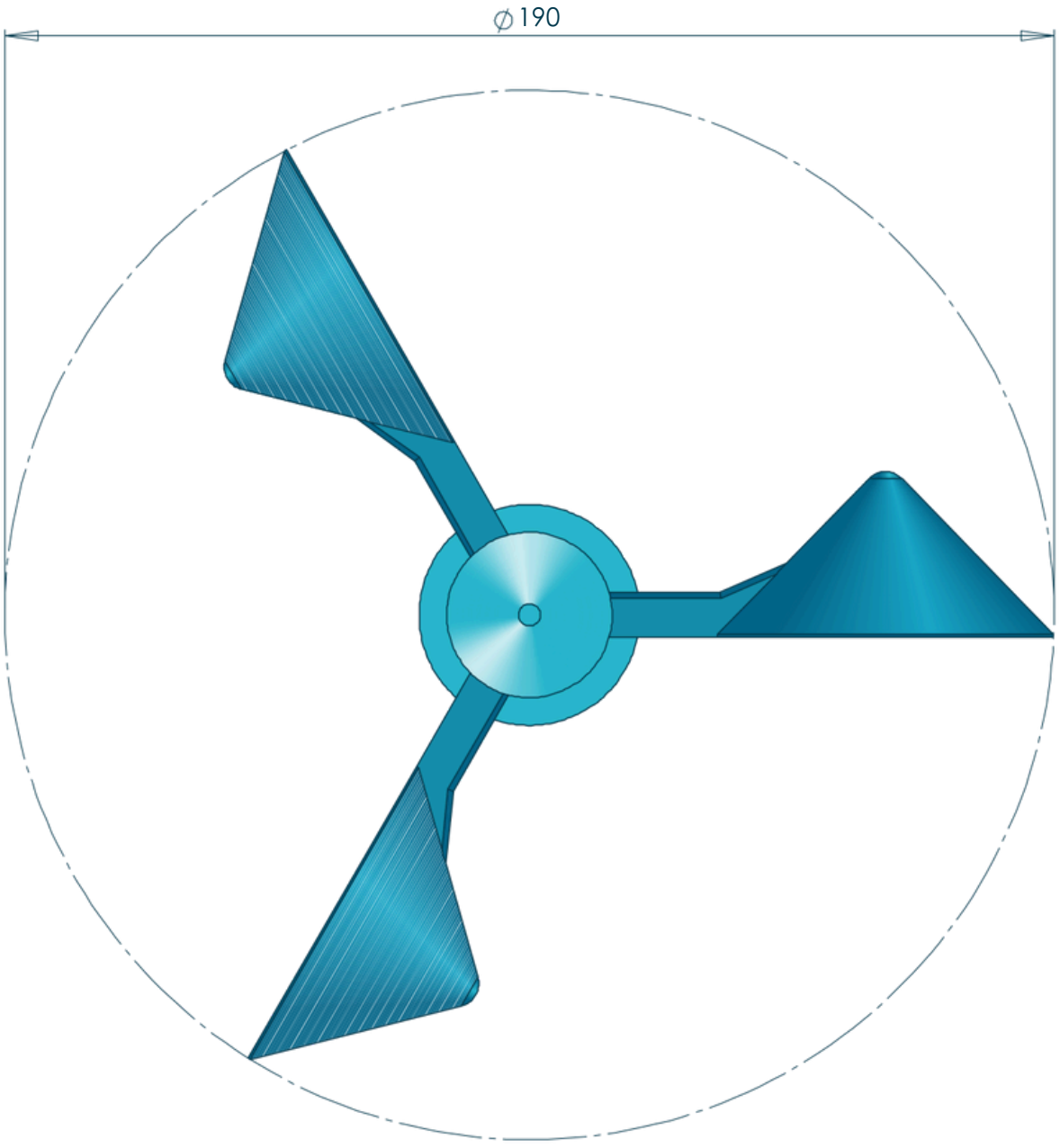

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