



METEOROLOGICAL EQUIPMENT

ED I-CUP ANEMOMETER

FEATURES

- Very high accuracy
- Fast Response
- Very high wind speeds >80m/s
- Low starting threshold speed
- Side mounted Triaxial plug connection
- 4-20 mA Two-Wire Transmitter
- Wide Supply Range
- Wind Tunnel calibration (option)

APPLICATIONS

- Research and scientific measurements
- Wind farms
- Environmental monitoring and warning
- Agriculture - Industry - Aviation
- Meteorological Stations

TECHNICAL CHARACTERISTICS

The ED Cup Anemometer has been used worldwide during the last 20 years by meteorological institutes, scientific- and research laboratories, and the Industry for measuring of meteorological data, producing of Wind Atlas, and measuring of produced energy from wind turbines.

The Anemometer is designed for a high professional quality, easy to operate, and meets the requirements of different applications.

As option the Anemometer can be delivered with a Wind Tunnel calibration report.



The ED-260-I Transmitter Module is used for signal generation in the ED Cup Anemometer. This module measures the time-period used for the anemometers shutter to complete one cycle. The ED 260-I generates a current-output by an high-performance current-source.

The output circuit is pre-calibrated for deviation in offset and gain for high accuracy and easy use.

With a body of painted brass, the carbon 3-cup rotor for more than 80m/s, and the ball bearings and shaft of stainless steel, the Anemometer is very suitable for environment with salinity, high wind speeds and wide temperature range.

TECHNICAL SPECIFICATIONS
ED I-CUP ANEMOMETER

Measuring Range	0 - >80 m/s
Threshold Speed	about 0.2 m/s
Distance Constant	2 m
Non-linearity	Within 0.05 m/s above 2 m/s
Sensor Transducer type	ED 260-I
Sensor Output Signal	Linear 4-20 mA vs. wind speed.
Operating Temperature	-30 to +60°C
Temperature Stability	+/- 0.2 %
Electrical Connections	LEMO triaxial plug Terminal 1 (Center): Signal Terminal 2: GND
Materials	Body of brass, primed and painted. Cup of Carbon fibre (Utility Model no: 9400271).
Mechanical Specifications	
Height	295 mm
Diameter of Cup	190 mm
Weight	1.2 Kg
Mounting Hole	Ø 25 mm
Accessories included	Lemo triaxial plug.
Options	
Measuring Range	1: User defined Range: <u>0.2-</u> _____ m/s.
Calibration	2: Wind tunnel calibration.
Plug connection	3: Bottom mounted plug.
EU Declaration of Conformity	EN61000-6-3 Emission. EN61000-6-2 Immunity.
Warranty	One Year against faulty materials or workmanship.
Maintenance	
Annually	Check of cable, plug, ball bearings, cup and body.
Every Second Year	Annually check and change of ball bearings.

Serial no.: _____

Options: _____

Calibration Report: _____

Date: _____

Sign: _____