

# 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**

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