



## WIND VANE MODEL 660-U(H)

The digital wind sensor, windvane 660-U(H) is specially designed by Mierij Meteo for the wind turbine industry with the aim to obtain a robust and accurate wind measuring system. This system can endure the characteristic low frequency high amplitude vibrations and shock effects of the wind turbines and can operate under harsh climatologic conditions.

The sensor measures optically, so it has no moving electrical components. The absence of contacting devices ensures optimal reliability and make that the sensor needs little or no maintenance.

The digitally measured signals are converted into an analog output direct in the sensor. This principle combines the accuracy and reliability of the optical measurement together with the standard 0...10V outputsignal.

The sensor is provided with an ice cap which assures a free movement during frost periods.

A free bearing rotation is warranted by the special stainless steel precision bearings, which are sealed on both sides and lubricated for a wide temperature range of -75 to +80 degrees Celsius.

### Advantages

**Accurate, reliable and excellent performance**

- Robust not vulnerable sensor
- Special ice cap assures free movement during frost periods
- All-weather performance
- Minimum of maintenance
- Easy to install





## TECHNICAL SPECIFICATIONS: WINDDIRECTION SENSOR MODEL 660-U(H)

### PERFORMANCE

Operating range:	0 – 360°
Resolution:	5.6°
Code disc error:	< 3°

### PHYSICAL

Dimension:	265 x 370 mm, ø53mm
Weight:	1 kg
Material:	Anodised aluminium
Operating temperature:	-20...+60°C (without heater); -40...+60°C (with heater)
Static discharge:	The instrument is protected against outside inductive interference up to a discharge power of 1500 Watt.
Protection:	IP-65

### INSTALLATION

Installation:	Vertically, free-standing
Mounting:	3/4" female gas thread
Connection:	5 x 0.34 mm <sup>2</sup> shielded cable

### ELECTRICAL

Supply voltage:	18...24 VDC
Power consumption:	45 mA (without heater), (model 660-U)
Heater (optional):	4 A maximum, (model 660-UH)
Output signal:	0 – 10VDC @ 0..360°

### GENERAL

Maintenance:	Once every year, depending on local conditions
Calibration certificate:	A calibration certificate with a validity of 1 year is available on request.
Warranty:	1 year