

Wind Direction Sensor „first class“

Order No. F1000

F1001



AbsolutWind Customerservice

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Technical Data

Specifications	Description
Measuring range	0...360°
Measuring accuracy	0.25% (1°)
Survival wind speed	85 m/s to 0.5 h (without damage)
Permissible ambient conditions	- 50...+ 80°C All occurring situations of relative humidity including moisture condensation
Electrical output	2 kΩ potentiometer
Linearity	0.25% (1°)
Start	< 0.5 m/s at 10° deflection (acc. to ASTM D 5366-96) < 0.2 m/s at 90° deflection (acc. to VDI 3786 sheet 2)
Delay distance	< 1 m (acc. to ASTM D 5366-6)
Damping ratio	D > 0,25 (acc. to ASTM D 5366-96)
Quality factor	K > 1 $K = \frac{4 \cdot D \cdot \omega_0}{\rho \cdot u}$ D Damping ratio ω_0 Angular frequency of undamped oscillation ρ Air density u Wind speed
Heating	Surface temperature of frame neck > 0°C at 20 m/s to - 10°C air temperature at 10 m/s to - 20°C
Electric supply for potentiometer	Voltage U_s : 0...30 V DC, a supply current of max. 20mA is observed - short-circuit at north point! (isolated from housing) Current: ≤ supply voltage divided by the potentiometer resistance
Electric supply for heating	Voltage: 24 V AC/DC (galvanic isolation from housing) Power: 25 W
Connector	8-pin connector for shielded cable in the shaft
Assembly	Mounted on a mast 1" such as DIN 2441 1½ " with a separate adapter (optional)
Weight	About 0.7 kg
Protection class	IP 55 (DIN 40050)
Manufacturer Customerservice and Sales	Adolf Thies GmbH & Co. KG AbsolutWind GmbH

Subject to change