

## **Anemometer "first class" advanced**

***Classified according to IEC 61400-12-1 (2005-12)***

Order No. A1000

A1001



### **AbsolutWind Customerservice**

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## Technical Data

Specifications	Description
Measuring range	0.3...75 m/s
Accuracy	0.3...50 m/s 1% of reading or < 0.2 m/s
Survival speed	80 m/s (min. 30 minutes)
Permissible ambient conditions	- 50...+ 80°C, all occurring situations of relative humidity (including condensation)
Output signal	
Form	Rectangle, steep slope < 1 µsec
Frequency	1082 Hz @ 50 m/s
Amplitude	Equals supply voltage, max. 15 V
Output/push-pull	Output impedance typ. 100 Ω; constant current limiting to 25 mA
Output/ Open drain	Drain resistor typ. 50 Ω, pull-up voltage max. 30 V; constant current limitation of 50 mA
Load/ Open drain	R ≥ 1 kΩ C ≤ 200 nF (corresponding to typical cable length ≤ 1 km)
Linearity	Correlation factor r between frequency and wind speed y = 0.0462 + 0.21 f * typical r > 0.999 99 (4...20 m/s)
Starting velocity	< 0.3 m/s
Resolution	0.05 m wind run
Distance constant	< 3 m (acc. to ASTM D 5096 - 96), 3 m (acc. to ISO 17713-1)
Turbulent flow	Deviation Δv horizontal turbulent flow over a stationary - 0.5% < Δv < 2% - frequency < 2 Hz
Classification	IEC 61400-12-1 (2005-12) Class A classification index A 0.9 Class B classification index B 3.0 Class S classification index S 0.5
Wind load	Approx. 100 N @ 75 m/s
Heating	Surface temperature of housing neck > 0°C at 20 m/s up to - 10°C air temperature, at 10 m/s up to - 20°C.
Electrical supply for opto-electronic scanning	Voltage: 3.3...48 V DC (galvanic isolated from housing) Current: 130 µA typical 150 µA max. @ 3.3 to 15 V (without external load) 180 µA typical 200 µA max. @ 15 to 48 V (without external load)
Electrical supply for heating	Voltage: 24 V AC / DC, 45...65Hz (galvanic isolated from housing) Open circuit voltage: max. 30 V AC, max. 48 V DC Power: 25 W
Connection	8-pole plug-connection for shielded cable in the shaft
Mounting	Mounting on mast R 1", e.g. DIN 2441 1½" with a separate adapter (optional)
Weight	Approx. 0.5 kg
Protection category	IP 55 (DIN 40050)
Manufacturer, Customerservice and Sales	Adolf Thies GmbH & Co. KG, AbsolutWind GmbH

Subject to change