

High accuracy of wind speed and direction measurement, maintainfree.

Without moving measuring elements 2 parameters measurable Optimally heatable Installation and maintain is easy

Application field:

Wind energy; Meteorology; Industrial automation; Ships etc.

Technical Data

Ultrasonic wind sensor

of interfaces.

Which is used for wind direction and wind speed.

The seawater resistent sensor is perfectly heated and ideal for use in cold climate conditions. The measured values can be requested over a variety

Wind speed	
Principle	Ultrasonic
Measuring range	0~75m/s
Resolution	0.1m/s (standard)
Accuracy	± 0.2m/s RMSE (<2m/s)
	± 1.5% RMSE (>=2m/s) of measurement
Response time	0.1m/s
Measuring rate	60 partial measurements/
	15 full measurements per second

Measurement output rate 1~10 sec adjustable, default 10 s Unit m/s; km/h; mph; kts

Wind direction

Principle	Ultrasonic
Measuring range	0~360°
Resolution	0.1° (standard)
Accuracy	± 1° RMSE >1,0m/s
Response time	0.1m/s
Measuring rate	1 Second





Virtual temperature

Principle		Ultrasonic
Measuring ra	ange	-50°C~+70°C
Resolution		0.1K
Accuracy	± 2.0K (without heate	r and without sun exposure)
Measuring r	ate	1 Second

Data output digital

Inte	erface F	RS 485 semi/full duplex, isolated	
Bau	ıd rate	1200~57600	
Measurement rate instantaneous value		value 1~10s	
Measurement Avg (arithmetic, vector)		ector) 1~10mir	
Stat	tus	Heating, sensor failure	

Data output analog

output signal	4~20 mA (instantaneous, avg, min, max
Load	max. 300 Ohm
Resolution	16bi

General Information

Operating temperature		-40°C~+60°C (with heating)
Bus operation up to 255 devices		up to 255 devices
Operating voltage electronics		8~36 V DC or 24 V DC/1,2 VA
with heater		24 V DC, max. 200 VA
connection		8 pole plug, Thies-compatible
Housing material	Anod	ized aluminium, seawater-proof
Protection		IP 65
Dimensions		Ø 150 x 145 mm
Weight		approx. 2,5 kg
Pole diameter		50 mm / 2"
Measurements protocol		yes