

# Thies Ultrasonic Anemometer Compact

Order-No: P 6000H

- Wind speed & direction and acoustic-virtual temperature
- Orthogonal wind velocity vectors (X- and Y-distance)
- Scalar/vectorial wind velocity, wind direction
- Acoustic-virtual temperature
- NMEA data protocol
- ASCII THIES FORMAT
- Analog data



## Description

The measurement principle allows, compared to the classic anemometers, an inertia-free measurement of running variable dimensions with highest precision and accuracy.

The measuring values can be output digitally and/or in analog form.

The serial or analogue output of the data is carried out alternatively as instantaneous value or as gliding mean value with selectable time frame.

If necessary, the instrument is automatically heated in case of critical ambient temperatures. The possibility of malfunction, caused by icing, is minimized. The sensor arms and the ultrasonic sensors are heated

## Specification Thies Ultrasonic Anemometer Compact: P 6000H

### Wind Speed:

Range	0....65 m/s
Accuracy	± 0.2 m/s rms (@ < 5 m/s); ± 2 % rms (> 5 m/s)
Resolution	0.1 m/s (standard) < 0.1 m/s (user-defined)
Direction Identification	1° / 181° (Info: 0° = calm)

Messbereich:

### Wind Direction:

Measuring Range	0....360°
Resolution	1° (standard); < 1° (user-defined)
Accuracy	± 2 °

### Virtual Temperature

Range	-50...+70°C
Accuracy	± 2 K
Resolution	0.1K

### Data Output Digital

Interface	RS 485 / RS 422
Baud rate	1200 -921600
Output	Instantaneous value, mean value
Output rate	1 per 10 msec. to 1 per 10 sec
Status recognition	Heating, measurement section failure, distance temperature

### Data Output Analog

Output signal	0....20 mA (factory setting) or 4...20 mA
Electr. Output	for WV, WD 0-20 mA / 0-5 V / 0-10 V 4-20 mA / 2-5 V / 2-10 V
Load	current output max. 300 Ohm voltage output min. 2000 Ohm
Resolution	16 Bit

### General:

Bus operation	up to 99 devices
Operating voltage	Power supply electronics, 8-36 V DC or 24 V AC/1.2 VA Power supply heating, 24 V AC/DC, max. 250 VA
Protection	IP65
Housing Material	Anodized Aluminium, seawater proof
Dimensions	200 x 129 mm
Electr. Connection	8 pole plug
Weight	approx. 2 kg
Manufacturer	Thies