

Ultrasonic Anemometer 3D

The Ultrasonic Anemometer 3D provides measurement of the wind direction and the wind velocity in all three dimensions. The maintenance-free and wearless anemometer needs no recalibration, and it is equipped with a heating for winter operation even under extreme conditions.



Accuracy

Wind direction

Measuring range	0 to 360° / 540° / 720°
Resolution	1° (standard) < 1° (user defined)
Accuracy	±1° (1 to 35 m/s) ±2° (35 to 65 m/s) ±4° (65 to 85 m/s)

±3 % rms (65 to 85 m/s)



Virtual temperature

Measuring range	-50 °C to +80 °C
Resolution	0.1 K
Accuracy	± 0.5 K

Data output digital

Interface	RS-485 / RS-422
Baudrate	1200 to 921600 Baud
Data values	instant. values, average values, standard deviation
Output range	1 per 10 msec up to 1 per 60 sec
Status signals	heating, Meas section error, Temperature of meas section

Data output analog

Measured values	WS - Vectors VxVyVz WS - Azimut, WD - Azimut, WS Elevation	
Wind speed	0 to 20 mA	
	4 to 20 mA	
	0 to 10 V	
	2 to 10 V	
Stromausgang	max. 400 Ω	
Wind direction	0 to 20 mA	
	4 to 20 mA	
	0 to 10 V	
	2 to 10 V	
Voltage output	min. 4000 Ω	
Resolution	16 bit	

Data input analog (alternative)

Chanels	3 x 0 to 10 V
Resolution	16 bit

Operating voltage

Electronic	8 to 78 V DC or 12 to 55 V AC / 2.5 W
Heating	24 V AC / DC, typ 150 W

General

Bus operation	up to 98 sensors
Electr. connection	8 pol. connector
Mounting	on a mast tube 1,5"
Housing	stainless steel (V4A) AiSi316Ti
Protection	IP 67
Dimension	600 x 300 mm
Weight	3.4 kg



All specifications are subject to change without prior notice. © MicroStep-MIS. All rights reserved. www.microstep-mis.com