

V200A-Ultrasonic Wind Ssensor, plastic housing and 30W-heater



The ultrasonic wind sensor is designed without mechanical parts as they have been used with traditional "cups and vanes". The digital or analog output delivers instantaneous, average, min or max value with flexible measuring rate. The V200A-UMB is heated in case reaching critical ambient conditions.

Recommended for:

- meteorology
- building automation

The following outputs/protocols are available:

- NMEA
- ASCII
- UMB
- 4...20 mA analog

V200A-Ultrasonic Wind	d Ssensor		Order No.
Extremely precise and direction as well as ca	maintenance-free meas lculation of acoustic virt	surement of wind velocity and wind ual temperature. Belongs to Luffts WS digital and analog interfaces.	
V200A-UMB			8371.UA01
Technical Data	Dimensions	Ø approx. 150 mm, heigth approx. 200 mm	
	Weight	approx. 0.8 kg	
Wind direction	Principle	Ultrasonic	
	Measuring range	0.1360°	
	Resolution	0.1 ° (standard)	
	Accuracy	< 3° RMSE from1.0 m/s	
	Start-up treshold	0.3 m/s	
	Measuring rate	15 full measurements per second 60 partial measurement	
	Measuring rate instant. value	1-10s Default 10s	
Wind speed	Principle	Ultrasonic	
	Measuring range	060 m/s	
	Resolution	0.1 m/s	
	Accuracy	± 0.3 m/s or 3 % (035 m/s) ± 5 %(> 35 m/s) RMSE	
	Start-up treshold	0.3 m/s	
	Measuring rate	15 full measurements per second 60 partial measurement	
	Measuring rate instant. value	1-10 s Default 10 s	
	Unit	m/s; km/h; mph; kts	
Virtual temperature	Principle	Ultrasonic	
	Measuring range	-50°C+70°C	
	Resolution	0.1 K	
	Accuracy	± 2.0 K (without heater and without sun exposure)	
	Measuring rate	15 full measurements per second 60 partial measurement 1-10 s	
	Measuring rate instant, value	Default 10s	
	Data output	digital	
	Interface	RS485 semi-/full duplex, isolated	
	Baud rate	1200-57600	
	Measurement rate	instantaneous value 1-10s	
	Measurement	Avg (arithmetic, vector), Min, Max 1-10 min	
	Status	Heating, sensor failure	
	Data output	Only semi-duplex mode	
	Output signal	4-20 mA (instantaneous, avg, min, max)	
	Max. load	max. 300 Ohm	
	Resolution	16 bit	
General Information	Permissible ambient temperature	-40+60°C (with heating)	
	Bus operation	Up to 32 devices	
	Operating voltage	electronic 1030 VDC or 24 VDC/1.2VA	
	With heating	24 VDC, max. 20 VA	
	Electrical connection	8 pole plug	
	Housing material	Plastic	
	Protection type	IP 65	
	Mounting	Pole diameter 50 mm / 2"	
	Factory certificate	yes	
Accessories	Surge protection		8379.USP-V 8366.USV1
		Power supply 24 V/4 A	
	UMB Interface converte		8160.UISO
	Connection cable Ventus/V200A, 15 m incl. connector		8371.UK015
		is/V200A, 50 m incl. connector	8371.UK050
	Connector Ventus/V200	A	8371.UST1