WIND
Ultrasonic Anemometer 1D

Part number: 4.3867.0x.xxx
Different measuring values are
available, among others:
• Flow vector
• Scalar flow velocity
• Acoustic-virtual temperature
• Standard deviation of the wind velocity
• Standard deviation of the scalar air flow
• Standard deviation of the acoustic-virtual temperature
• Flow velocity of the gust

The instrument is especially suited for the use
• In the traffic engineering
• Indoor flow measurement
• In tunnels
• In tubes

The measurement principle allows, compared to the classic anemometers, an inertia-free measurement of running variable dimensions with highest precision and accuracy. It is especially suited for the measurement of gust- and peak values. The measuring values can be output digitally and/or in analogue 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 sensor arms are automatically heated with critical ambient temperatures.

Specification

Part number: 4.3867.0x.xxx

Wind speed	
Measuring range	0 ... 75 m/s
Resolution	0.1 m/s
Accuracy	±0.1 m/s rms (< 5 m/s)
	±2 % rms (> 5 m/s)
Wind direction	
Measuring range	1 or 181 °
Virtual temp.	
Measuring range	-50 ... +80 °C
Resolution	0.1 K
Accuracy	±0.5 K
Data output digital	
Interface	RS485 / RS422
Baudrate	1200 ... 921600 Baud
Data values	instant. values, average values

Benchmark Monitoring

SCAN for more information:

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Output range	1 per 10 msec up to 1 per 60 sec
Status signals	heating, distance error
Data output analog	
Wind speed	0 ... 20 mA 4 ... 20 mA 0 ... 10 V 2 ... 10 V
Stromausgang	max. 400 ê
Voltage output	min. 4000 ê
Resolution	16 bit
Operating voltage	
Electronic	8 ... 42 V DC or 12 ... 28 V AC / 2.5 W
Heating	24 V AC/DC, typ 40 W
General	
Bus operation	up to 98 sensors
Electr. connection	8 pol. connector
Mounting	auf Mastrohr Ø 1,5``
Housing	stainless stell (V4A) AiSi316Ti
Protection	IP 67
Dimension	424 mm x 287 mm
Weight	2.5 kg

Versions

As per 4.3867.0x.xxx, but:

Product number 4.3867.00.340
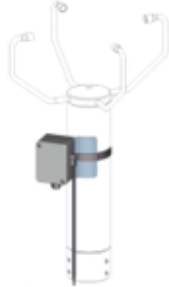
Data output digital	
Baudrate	9600 Baud
Duplex mode	Full duplex
Data telegram	VDT-Telegram (Telegram2)
Output range	10 per 1 sec

Product number 4.3867.01.311

Data output digital	
Baudrate	9600 Baud
Duplex mode	Half duplex
Data telegram	no independent data output
Data output analog	
Type	3 x 4 ... 20 mA

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Accessories

Product	Product name	Brief description	
	Ultrasonic Bird delfector 4.3800.90.000	The Ultrasonic Bird Deflector protects the ultrasonic anemometer against measurement faults, which might be caused by different species of birds.	
		Data output digital	
		Switching output	max. 24 V AC/DC
		Interface	
		Type	RS485
		Data format	8N1
		Baud rate	2400 ... 115200 Baud
		General	
		Power supply	12 ... 24V DC / 24 V AC
		Electr. connection	cable gland
		Housing	Polycarbonate
		Protection	IP 65
		Weight	0.2 kg
	Connecting cable 50775x	Suitable cable for 4.3820/30/75/80/81 • length: see versions	
		General	
		Cable length	see versions
		Cable	PUR 4 x 0,75 +2x2x0,14 mm²

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