

WIND

Ultrasonic Anemometer WP

Part number: 4.388x.xx.xxx

It has been developed especially for the application in harsh environments, and is eminently suited for the use on wind power plants thanks to the compact construction and low weight. The serial or analogue output of the data occurs optionally as instantaneous value or as moving average value with settable time frame.

If necessary, the instrument is automatically heated at critical ambient temperatures. The risk of malfunction by freezing is thus minimized. The ultrasonic transducers are heated, as well as all essential housing components.



Specification

Part number: 4.388x.xx.xxx

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Wind speed		
Measuring range	0 75 m/s	
Resolution	0.1 m/s (standard)	
	0.01 m/s (user defined)	
Accuracy	±0.2 m/s rms (< 5 m/s)	
	±2 % rms (5 50 m/s)	
Wind direction		
Measuring range	0 360 °	
Resolution	1 °	
	1 ° (standard)	
	< 1 ° (user defined)	
Accuracy	±2°@2m/s <ws<50 m="" s<="" td=""></ws<50>	
Virtual temp.		
Measuring range	-40 +70 °C	
Resolution	0.1 K	
Data output digital		
Interface	RS485 / RS422	
Baudrate	1200 921600 Baud	
Data values	instant. values, average values	
Output range	1 per 100 msec up to	
	1 per 50 sec	
Status signals	heating, Meas section error, Temperature of meas section	
Protocol	ASCII, MODBUS RTU, NMEA WV	



Data	output	analog

0 20 mA		
4 20 mA		
0 10 V		
2 10 V		
max. 500 ê		
0 20 mA		
4 20 mA		
0 10 V		
2 10 V		
min. 50 kê		
16 bit		
8 40V DC or		
12 28 V AC / 2.5 W		
24 V AC/DC, typ 100 W		
base plate,		
cover plate,		
connecting pipes,		
ultrasonic transducers		
up to 98 sensors		
8 pol. connector		
seawater-proof, stainless steel (V4A)		
IP 67		
Ø 100 mm x 120 mm		

Versions

As per 4.388x.xx.xxx, but:

Product number 4.3882.00.000

Data output digital		
Protocol	ASCII	
General		
Mounting	on a mast tube Ø 34mm	
Weight	0.9 kg	

Product number 4.3882.00.001

Data output digital		
MODBUS		
on a mast tube Ø 34mm		
0.9 kg		



Product number 4.3883.00.000

Data output digital			
Protocol	ASCII		
General			
Mounting	on a mast tube Ø 50mm		
Weight	1.1 kg		
Product number 4.3883.00.001			
Data output digital			
Protocol	MODBUS		
General			
Mounting	on a mast tube Ø 50mm		
Weight	1.1 kg		

Accessories

Product	Product name	Brief description		
	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 mm ²	
			'	

