


Windmeter



ver.3.0

NAME	WindMeter		
PRODUCT	Digital wind gauge		
REFERENCE STANDARD	IEC 61400-12-1, MEASNET*		
Type of Output	Serial interface RS485 Modbus RTU * on request		
Applications	<ul style="list-style-type: none"> • Environmental Monitoring • Wind Resource Assessment • PV trackers • Meteorological studies 		
Instruments compatibility	Series LUFFT – WS 200		
Measured values	Wind speed	0 ÷ 50 m/s (0 ÷ 180 km/h)	
	Internal temperature	-30 ÷ +85 °C	
Calibration	Individual according to IEC 61400-12-1 Optional: MEASNET		
Resolution	≈ 0,5 m		
Input	Vanemeter reading address	258	
Output	Type Measured	Time range	Unit
	Speed	5s	m/s; km/h; ft/s; knot; mph
	Direction	5s	° sexadecimal degree
	Average Speed	1; 2; 5; 10 min	m/s; km/h; ft/s; knot; mph
	Average Direction	1; 2; 5; 10 min	° ° sexadecimal degree
	Speed resultant vector	5s	m/s; km/h; ft/s; knot; mph
	Direction resultant vector	5s	m/s; km/h; ft/s; knot; mph
	Speed average vector	1; 2; 5; 10 min	m/s; km/h; ft/s; knot; mph
	Direction average vector	1; 2; 5; 10 min	m/s; km/h; ft/s; knot; mph
Galvanically isolated from power			
Accuracy	Wind speed	± 3% (Measnet calibrated) Correlation > 0,99995 St.Err 0,022m/s	
	Internal temperature	± 3°C (-30 ÷ +85 °C)	
Threshold	0,3 ÷ 0,5 m/s		
Power supply	5 ÷ 40 Vdc / 9 ÷ 28 Vac, consumption <1 W Protected against reverse polarity and overvoltage Power consumption < 500mW (except heater)		
Mounting	20 ÷ 36 mm diameter		
Operating humidity	0 ÷ 95% RH		

Protection	IP65 Electronic circuit sealed
Cable	L= 3 m 4 conductor
Connector	Stand alone M8 4pin M; with Vanemeter M12 8pin M
Dimensions	<ul style="list-style-type: none"> • Rotor diameter : Ø 166mm • body diameter: Ø 44 ext., Ø 36 int. mm • height: 223 mm
Materials	<ul style="list-style-type: none"> • Cups: aluminum • body: anodized aluminum • screws: stainless steel (aisi 306)
Weight	300 gr
Options	Heater anti-icing thermoregulated

To achieve optimum measurement during installation please refer to the Annex G of the standard IEC61400-12-1 on the anemometers.