Windmeter2

ver.1.2

NAME **PRODUCT** **REFERENCE STANDARD** **Type of Output**	**WindMeter2** **Palette Digital wind gauge with memory backup until 1 yr and life backup without ext. supply until 5 weeks** IEC 61400-12-1, MEASNET* Serial interface RS485 Modbus RTU ** on request calibrated by Measnet labo*	

Applications	• Environmental Monitoring • Wind Resource Assessment • PV trackers • Meteorological studies	
Instruments Emulation	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: MEASNETcalibration	
Resolution	≈ 0,33 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	0,2 ÷ 0,3 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	• Rotor diameter : Ø 166mm • body diameter: Ø 44 ext., Ø 36 int. mm • height: 223 mm
Materials	• Cups: aluminum • body: anodized aluminum • screws: stainless steel (aisi 306)
Weight	300 gr
ADD-ON in WINDMETER2	**Functions in Absence of Power** supply: > 5 weeks Internal clock with logger function for **backup** of main data until more than 1 year | Date | Hour | Min | Avg. speed | Max Speed | Direction |
Options	Heater anti-icing thermoregulated
Backup Duration in function of Sample Time	

Sample time	No of day records	Years
5 min.	160	0.45
10 min.	320	0.9
15 min.	480	1.3
20 min.	640	1.7
30 min.	960	2.6
60 min.	1920	5.2

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

Company with ISO 9001 quality management system certification