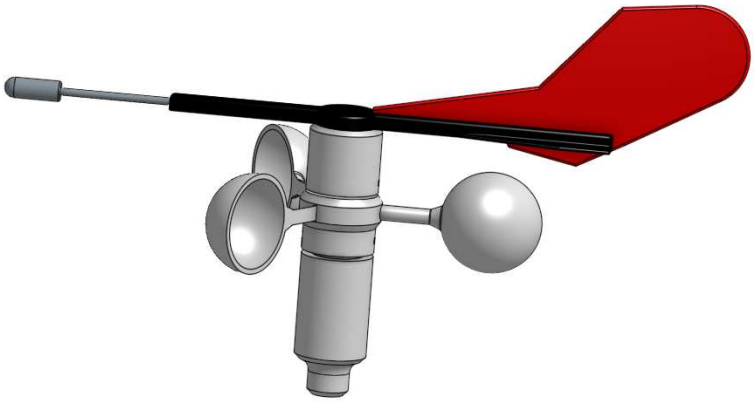
Data Sheed

Windsensor WiFi 1000



The Windsensor WiFi 1000 is used to display wind direction and wind speed. Data is transmitted wirelessly via a WiFi network connection to a central unit such as an OpenPlotter. The data is compatible with NMEA0183 and supports all common telegrams. A direct connection and display of the data via a mobile phone or tablet with commercially available navigation software is also possible. The wind sensor only requires a wired power supply, which can be tapped from a top light. This eliminates the need for the time-consuming laying of a cable in the mast.

Thanks to its compact design and purely digital signal processing, the wind sensor can be used for a wide range of applications and is insensitive to interference due to its radio-based data transmission. A suitable selection of materials and the use of robust industrial stainless steel ball bearings ensure low wear and a long lifetime.

All manufacturing documents are publicly accessible and are subject to OpenSource licenses, so that in the event of a fault the wind sensor itself can be repaired or, if necessary, extended per your own requirements.

Technical Data

Designation	Value / Range of values	Comment
Wind speed	0…40 m/s, 0…78 kn	
Start wind speed	1 m/s	
Wind direction	0…360°	
Resol. wind direction	0,3…6°bei 0…40kn	
Type of function	magnetic, Hall sensor	
Ambient temperature	0…60℃	
Storage temperature	-10…80℃	
Air Humidity	0…100%	
Power supplay	5V	reverse polarity protected
Consumption	1W	typical
Data transmission	WiFi 11 bgn	
Data rate	3 Mbit	
Range	app. 50 m	free field
Data protocols	NMEA0183 WiFi	
	NMEA0183 serial	3,3V logic level
	JSON WiFi	data transmission
	HTTP Access Point	for parameter settings
	TCP Socket	data connection
NMEA0183 Data types	MWV	
	VWR	
	VPW	
	INF	custom Code
Tightness class	IP63	protected against spray water
Dimensions L x W x H	295 x 180 x 170 mm	without tube and base
Weight	275 g	with tube and base
	165 g	without tube and base
Plastic	PLA: enclosure parts	painted
Metal	Alu: stator, tube, base	seawater resistant
	V4A: tip, threaded rod	
	V4A: screws, nuts	
Approvals	none	
Warranty	none	
Licenses	CC-BY-NC-SA	hardware
	OpenSource, GPL 3.0	software

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