

LONG RANGE WIRELESS WIND SENSORS

Wind speed: WS 011-1S, WS 011-1SB

Wind speed/direction: WSD 011-1S, WSD 011-1SB



FEATURES

- solar powering
- optional replaceable backup battery for areas with short daylight or for specific installations
- range up to 1300 m
- easy installation without running cables
- adjustable data update rate 0,5 2 seconds
- simple and robust design with replaceable parts
- replaceable cups, vane, bearings and electronic
- magnetic mounting (optional accesories)
- self-levelling mounting (optional accesories)

MODELS

Wind speed:

- WS 011-1SB (with included backup battery)
- WS 011-1S (without backup battery)



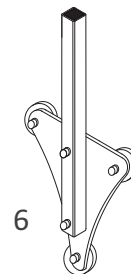
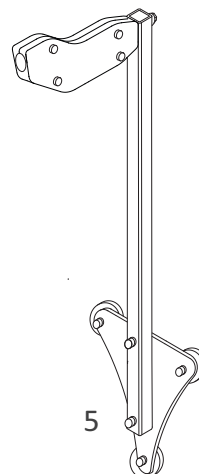
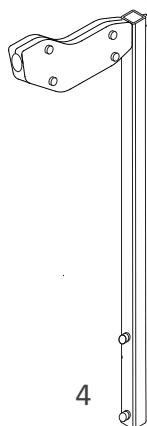
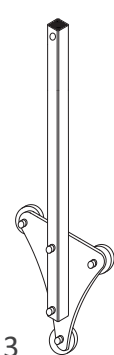
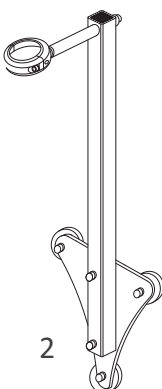
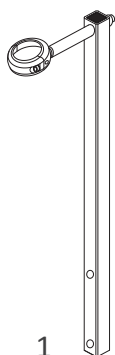
Wind speed & direction:

- WSD 011-1SB (with included backup battery)
- WSD 011-1S (without backup battery)



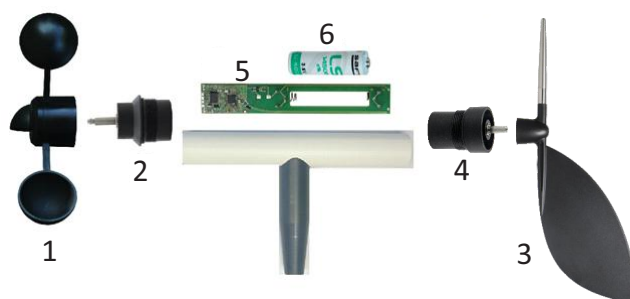
OPTIONAL SENSOR MOUNTING ACCESSORIES

- | | |
|--|--|
| 1 SLMA/WS Self-levelling mounting assembly for WS sensor | 4 SLMA/WSD Self-levelling mounting assembly for WSD sensor |
| 2 MSLMA/WS Magnetic self-levelling mounting assembly for WS sensor | 5 MSLMA/WSD Magnetic self-levelling mounting assembly for WSD sensor |
| 3 MMA/WS Magnetic mounting assembly for WS sensor | 6 MMA/WSD Magnetic mounting assembly for WSD sensor |



SPARE PARTS

- 1 Spare anemometer cups
- 2 WS sensor head with bearings
- 3 Spare wind vane
- 4 WSD sensor head with bearings
- 5 WS and WSD electronic PCB
- 6 3,6V Li Battery (only WS 011-1SB & WSD 011-1SB)



COMPATIBLE WITH ALL NAVIS DISPLAYS/RECEIVERS:



W410



WL13



WR3B



WR5



W210



W110



NAVIS

TECHNICAL DATA

Wind speed measurement range:	0,6 - 50 m/s
Temperature measurement range:	-30 °C ... +60 °C
Data transmission/update rate:	selectable - every 0,5 , 1 or 2 seconds (2 s is default setting, suitable for all receivers, 0,5 s and 1 s is possible only for some receivers)
Wind speed measurement resolution:	0,1 m/s
Temperature measurement resolution:	0,1 °C
Accuracy wind speed:	+/- 2,5 %
Accuracy temperature:	+/- 0,5 °C
Operating Frequency:	868 MHZ
Output power:	+14 dB (25 mW)
Temperature operating range:	-30 °C ... +55 °C
Backup battery:	3,6V AA size Lithium battery, LS14500 SAFT
Backup battery life time:	up to 6 years
Bearings (replaceable):	2 x precision stainless steel Ball bearings
Material - cups (replaceable):	PA (Polyamide)
Dimensions:	height 210 mm, overall diameter cup to cup 120 mm
Weight:	120 g
Mounting:	sensors to be mounted on a vertical pipe with 20 mm diameter

ADDITIONALLY FOR WSD SENSOR

Wind direction measurement range:	0 - 360°, no blank sector, contactless magnetic measuring principle
Wind direction resolution:	1 °
Accuracy wind direction:	+/- 2,5 °
Dimensions:	height 240 mm, overall vane diameter 220 mm
Weight:	260 g
Bearings (replaceable):	2 x precision stainless steel ball bearings

OPTIONS

- Individual wind tunnel tested sensors with calibration report
- full ceramic Ball bearings