

LONG RANGE WIRELESS WIND SENSORS

Wind speed: WS 010-1A; WS 011-1A

Wind speed/direction: WSD 010-1A; WSD 011-1A



FEATURES

- range up to 500 m or 1300 m at extended range model
- easy installation without running cables
- up to 4 years sensor battery life
- adjustable data update rate 0,5 2 seconds
- simple and robust design with replaceable parts
- replaceable cups, vane, bearings and electronic
- magnetic mounting (optional accessories)
- self-levelling mounting (optional accessories)
- compatible with range of NAVIS receiver units

MODELS

Wind speed:

Standard range: WS 010-1A

Extended range: WS 011-1A



Wind speed & direction:

Standard range: WSD 010-1A

Extended range: WSD 011-1A



OPTIONAL SENSOR MOUNTING ACCESSORIES

1 SLMA/WS Self-levelling mounting assembly for WS sensor

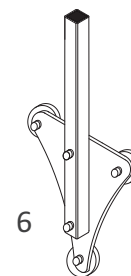
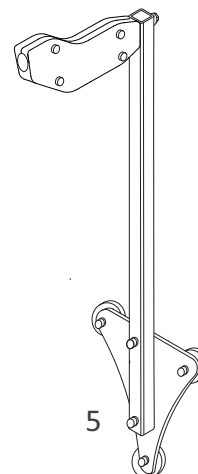
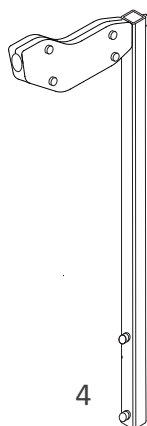
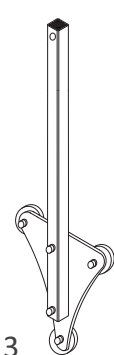
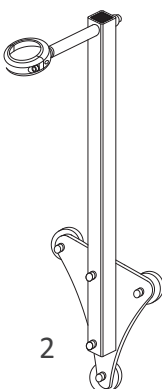
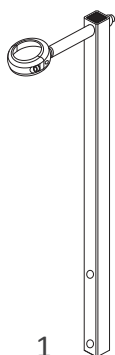
2 MSLMA/WS Magnetic self-levelling mounting assembly for WS sensor

3 MMA/WS Magnetic mounting assembly for WS sensor

4 SLMA/WSD Self-levelling mounting assembly for WSD sensor

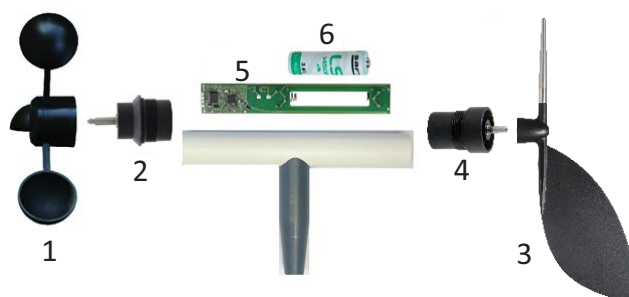
5 MSLMA/WSD Magnetic self-levelling mounting assembly for WSD sensor

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, AA size



COMPATIBLE WITH ALL NAVIS DISPLAYS/RECEIVERS:



W410



WL12



WR3B



WR5



W210



W110

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, 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:	0,5 °C
Accuracy wind speed:	+/- 2,5 %
Accuracy temperature:	+/- 1 °C
Operating Frequency:	868 MHz (915MHz FCC models)
Output power:	
standard range sensor WS 010-1A, WSD 010-1A:	+10 dB (10 mW)
extended range sensor WS 011-1A, WSD 011-1A:	+14 dB (25 mW)
Temperature operating range:	-30 °C ... +60 °C
Battery (included):	3,6V AA Lithium battery
Battery life time, WS sensors:	up to 4 years* (WS 010-1A), up to 3 years (WS 011-1A)
Battery life time, WSD sensors:	up to 3 years* (WSD 010-1A), up to 2 years (WSD 011-1A)
	* valid for 2 second transmission rate. At 1 sec. the consumption is doubled and at 0,5 sec. is quadrupled
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

- FCC certified versions
- Individual wind tunnel tested sensors with calibration report
- full ceramic Ball bearings
- Ex version - Atex certified versions for potentially explosive environments
- versions with life time battery pack