

LONG RANGE WIRELESS WIND SENSORS

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

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



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
- simple and robust design with replaceable parts
- replaceable cups, vane and bearings
- magnetic mounting (optional accessories)
- self-levelling mounting (optional accessories)
- compatible with range of NAVIS receiver units

MODELS

Wind speed:

Standard range: WS 010-1
Extended range: WS 011-1



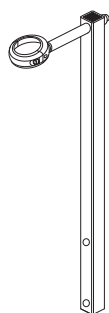
Wind speed/direction:

Standard range: WSD 010-1
Extended range: WSD 011-1

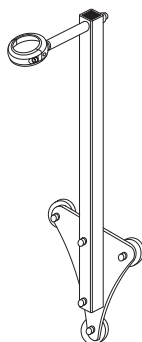


SENSOR MOUNTING ACCESSORIES

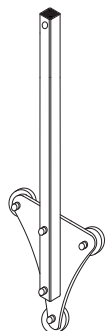
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|---|--|
| 1 Self-levelling mounting assembly for WS sensor | 4 Self-levelling mounting assembly for WSD sensor |
| 2 Magnetic self-levelling mounting assembly for WS sensor | 5 Magnetic self-levelling mounting assembly for WSD sensor |
| 3 Magnetic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



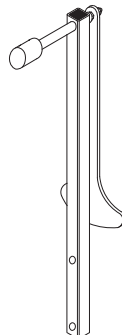
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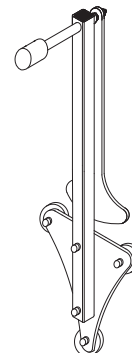
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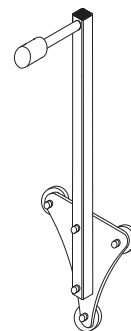
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SPARE PARTS

- 1 Spare anemometer cups
- 2 Spare wind vane
- 3 WS sensor head with bearings
- 4 WSD sensor head with bearings



1



2



3



4

COMPATIBLE WITH ALL NAVIS DISPLAY/RECEIVERS:



W410/W410BAT



WL12



WR3-B



W301



W110

TECHNICAL DATA

Wind speed measurement range:	0,6 - 50 m/s
Temperature measurement range:	-30 °C ... +55 °C
Data transmission rate:	every 2 seconds
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
Output power:	
standard range sensor WS 010-1; WSD 010-1:	+10 dB (10 mW)
extended range sensor WS 011-1; WSD 011-1:	+15 dB (32 mW)
Temperature operating range:	-30 °C ... +55 °C
Battery (included):	3,6V AA Lithium battery
Battery life time, WS sensors:	up to 4 years (WS 010-1), up to 3 years (WS 011-1)
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
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 °
Material - vane (replaceable):	Carbon/Al
Dimensions (without holder):	height 240 mm, overall vane diameter 220 mm
Battery life time (WSD sensors):	up to 3 years (WSD 010-1); up to 2 years (WSD 011-1)
Bearings (replaceable):	2 x precision stainless steel Ball bearing (optionally ceramic Ball bearing)

OPTIONS

- Individual wind tunnel tested sensors with calibration report
- full ceramic ball bearings
- Ex version - Atex certified versions for potentially explosive environments