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
NAVIS elektronika
E-mail: info@navis-elektronika.com
www.navis-anemometers.com

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

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 Spare wind vane
3 WS sensor head with bearings
4 WSD sensor head with bearings

COMPATIBLE WITH ALL NAVIS DISPLAY/RECEIVERS:

W410/W410BAT
WL12
WR3B
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: +14 dB (25 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)
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 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 °
Dimensions (without holder): height 240 mm, overall vane diameter 220 mm
Bearings (replaceable): 2 x precision stainless steel Ball bearing

OPTIONS

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