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

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