



WIRELESS WIND SPEED/DIRECTION SENSOR

MANUAL

Models: WS 010-2, WSD 011-2

OPERATING

Sensors continuously measure and transmit data of wind speed, wind direction and air temperature. Data packets are transmitted every two second. On display units you can read data of current, average and maximum wind speed, wind direction, temperature or view history graphs.

SENSOR ADDRESS

The sensor address is indicated on the label attached to the sensor and in the interior of its battery compartment.

RANGE

The connection between the sensor and the receiving unit works on free 902-928 MHz band. The operating range is up to 500 meters (1300 meters at "X" models) - at 10 m sensor mounting height and when there is no obstacle between the sensor and the display unit. The range inside buildings is considerably shorter as the signal can be normally received through two to three walls.

BATTERY REPLACEMENT

WS 010-2 SENSOR:

Take off the battery cover by turning sensors bottom part anticlockwise. Pull out the battery holder and insert new battery (3,6V AA Lithium battery).

WSD 011-2 SENSOR:

Loosen and remove the locking screw on battery compartment (horizontal cylinder) and pull out the plug. Pull out the battery holder and insert new battery (Lithium 3,6 V AA). Return the plug and secure it with screw.

FCC INSTRUCTION TO THE USER

IMPORTATN! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: 2AK8G-NAVIS-WS01

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radi-ate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

TECHNICAL DATA

WS 010-2 WIND SPEED SENSOR

| | |
|--------------------------------|---|
| Wind speed measurement range: | 0.6 - 50 m/s |
| Temperature measurement range: | -30 ... +60 °C |
| Data transmission rate: | every 2 seconds |
| Wind speed resolution: | 0.1 m/s |
| Temperature resolution: | 0.5 °C |
| Accuracy wind speed: | +/- 3 % |
| Accuracy temperature: | +/- 1 °C |
| Operating Frequency: | 902 - 928 MHz |
| Temperature operating range: | -25 °C - +60°C |
| Battery: | 3,6V AA Lithium battery (included) |
| Battery life time: | up to 2 years |
| Bearings: | 2 x precision stainless steel Ball bearing |
| Material - cups (replaceable): | PA (Polyamide) |
| Dimensions: | height 210 mm, overall diameter cup to cup 120 mm |
| Mounting: | sensors mount on a pipe with 20 mm diameter |

WS 011-2 WIND SPEED AND DIRECTION SENSOR (ADDITIONALLY TO WS 010-2 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 |
| Dimensions (without holder): | height 240 mm, overall vane diameter 220 mm |
| Mounting: | sensors mount on a pipe with 20 mm diameter |

Subject to technical modification without notice.

Models:

WS 010-2 - wind speed sensor

WS 011-2 - wind speed and direction sensor

OPTIONS:

- individual wind tunnel certificated sensor available
- self-leveling mounting assembly
- magnetic self leveling mounting assembly
- magnetic mounting assembly

LIMITED WARRANTY

This product is guaranteed for one year after date of purchase. During limited warranty period any defective product will be repair or replace with comparable product without charges. The limited warranty does not cover battery and damages of any kind including physical caused accidentally or from misuse. Manufacturer's responsibility is limited to repair or replace the product. Any liability for direct or indirect damage caused by product failure is excluded. The claimed product will be repaired or replaced only when returned to the store where it was purchased together with original invoice.



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