

WIRELESS PORTABLE ANEMOMETER

WR3-B DISPLAY UNIT

MANUAL

PREFACE

Thank you for buying Navis anemometer. This manual provides information for the best performance and safe application of the anemometer display unit. This manual does not cover the anemometer sensors for which the manuals will come separately. Read this manual carefully before starting the installation. Keep this manual after installation for future reference.

INTRODUCTION

WR3-B is long range receiver/display unit which receive data from NAVIS wind sensors, displays various wind data and warns by sound alarm about exceed wind speed.

OPERATION

If the display unit is delivered as set, with sensor included, the correct sensor address is already set.

Otherwise please set first the correspondent sensor address. Check the address settings procedure in chapter "SETTINGS".

Turn sensor ON with sensor cups rotation (see sensor manual).

SWITCHING ON: Press the right key.

SWITCHING OFF: Press the right key for 3 seconds.

BACKLIGHTING: With short presses of the right key you can turn backlighting ON and OFF.

The display unit receive fresh data from sensor every two seconds. Segment 12 of Bft graph blinks each time when the data are received. If display unit has no valid data from the sensor for more than 10 seconds it displays two dashes.

FUNCTIONS

- Wind speed measurement in m/s, km/h, knots or mph
- Current, average and maximum wind speed
- Bar graph for wind speed in Beaufort scale (always shows current speed)
- Temperature
- Wind-chill

SELECTING THE FUNCTIONS ON LOWER DIGITS

By pressing the left key (F), four different functions will alternate on lower digits:

Mode 1: Temperature

Mode 2: Wind-chill

Mode 3: Maximum speed (maximum current speed since Power On. Maximum speed resets by holding the left key pressed for 2 seconds when function selected).

Mode 4: Average speed/current speed (depends on selection in the setting menu)

SETTINGS

By holding the left key (F) pressed, after 4 seconds, the menus for different groups of settings will start appearing in 1 second steps. Release the key on selected menu. With presses of left or right key, you can then adjust the value or select between options within the selected menu. After 5 seconds of non-pressing the key, instrument will return to normal operation.

Menus:

1. Adjust alarm limit
2. Select the average period for average speed: 10 s, 30 s, 2 min or 5 min
3. Select the address (1 256) correspondent to sensor address from which you wish to receive data
4. Select the unit of wind speed measurement: m/s, km/h, knots or mph
5. Select the unit of temperature measurement: °C or °F

TEMPERATURE MEASUREMENT

The temperature sensor is located within the sensor. It can take up to 30 minutes to sensor reach the surrounding air temperature.

SENSOR ADDRESS

Always set the address correspondent to address of sensor from which the receiver will receive data. Address of sensor is marked on sensor and also in the interior of battery compartment.

ALARM

When The Current Wind Speed exceed the pre-set value, the " H i " sign blink on the display and the audible alarm is activated.

WINDCHILL

Wind-chill function gives us information how cold it feels because of combined effect of current air temperature and wind speed. The anemometer automatically calculates and displays this subjective temperature according to the latest formula.

BATTERY REPLACEMENT

When display starts blinking, replace the battery. Batteries are placed under the lid at the backside of the display unit.

RANGE

Connection between sensor and display unit work on free 868 MHz band. Reach is up to 400 meters when there is no obstacle between sensor and display unit. Inside the building the range is much shorter. Normally the signal can go through two to three walls.

LIMITED WARRANTY

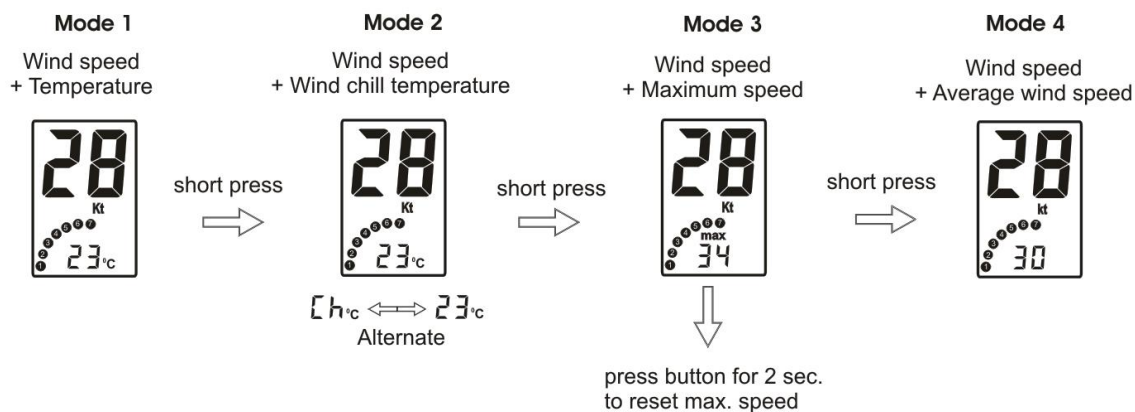
This product is guaranteed for one year after date of purchase. During limited warranty period any defective product will be repair or replace with comparable product without charges. The limited warranty does not cover battery and damages of any kind including physical caused accidentally or from misuse. 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.

TECHNICAL DATA

Wind speed measurement range:	0,6...50 m/s
Temperature measurement range:	-30....+60 °C
Wind speed units:	m/s, Km/h, Knots, mph, Bft
Temperature units:	°C, °F
Wind speed resolution:	0,1 unit (under 9,9)
	1 unit (above 10)
Temperature resolution:	1 °C
Wind speed accuracy:	typ. +/- 3%
Temperature accuracy:	+/- 1 °C
Averaging period (av wind speed):	selectable 10 s, 30 s, 2 min or 5 min
Display updating:	every 2 seconds
Operating frequency:	868 MHz
Temperature operating range:	-30 ... +60 °C
Battery:	2 x 1,5V AA - mignon, alkaline (not included)
Battery life:	up to 5000 hours (depends on signal strength)
Battery life with backlighting:	up to 300 hours
Dimensions:	94 x 63 x 28 mm

Alternations in specifications are subject to change without notice.

FUNCTION



SETTINGS

