

# Long Range Wireless Anemometer SWR-3

User Manual



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## Operation

### Sensor Unit

Switches ON automatically when the anemometer cups revolve. It switches OFF 2 minutes after the anemometer cups stop revolving.

### Display Unit

Switching ON: Press the right button.

Switching OFF: Long press the right button for 3 seconds.

Backlighting: Short press right button when device is ON.

In the case display unit has no signal from sensor or sensor is out of range for 10 unites, it switches to power saving mode. In that mode it checks every 10 seconds if sensor sends data. Due to power saving mode the first wind speed value can be delayed up to 10 seconds before it is displayed. As soon as display unit detects sensor it switches to normal mode and displays current values every 2 seconds. In the case display unit has no valid data from sensor for 10 seconds it displays two dashes. Segment 12 of Bft graph blinks when the display unit receive data from the sensor.

### 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 button (F), four different functions will alternate on lower digits:

Mode 1: Temperatuer

Mode 2: Wind-chill

Mode 3: Maximum speed (maximum current speed since Power ON. Maximum speed reset by holding the left button 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 button (F) pressed, after 4 seconds, the menus for different groups of settings will start appearing in 1 second steps. Release the button on selected menu. With presses of left or right button, you can the adjust the value or select between options within the selected menu. After 5 seconds of non-pressing the button, instrument will return to normal operation.

Menus:

1. Adjust alarm limit
2. Select the average period for average speed: 10 sec, 30 sec, 2 min or 5 min.
3. Select the address 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 the 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 blinks on the display. At SWR3-A type audible alarm is also activated.

## WINDCHILL

Wind-cill 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

*Sensor:* when the sign Lb starts appearing on the display, replace the sensor battery. Take off the battery cover by turning it anti-clockwise. Pull out the battery holder and insert new battery. NOTE! Do not open battery cover unnecessarily. It is sealed with sealant.

*Display unit:* when display starts losing contrast, replace the battery. Battery is 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 no obstacle is between sensor and display unit. Inside the building the range is much shorter. Normally the signal can go through two to three walls.

## TECHNICAL DATA

Wind speed measurement range	0.8...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	settable 10 sec, 30 sec, 2 min or 5 min
Display updating	every 2 sec
Data transmission	every 2 sec
Transmission frequency	868 MHz
Battery (sensor)	3.6 V lithium battery, AA - mignon
Battery (receiver)	AA mignon - alkaline
Dimensions	
Sensor height	210 mm
Sensor diameter (cup to cup)	120 mm
Display unit	94 x 63 x 28 mm

\* Alternations in specification are subject to changes without notice.

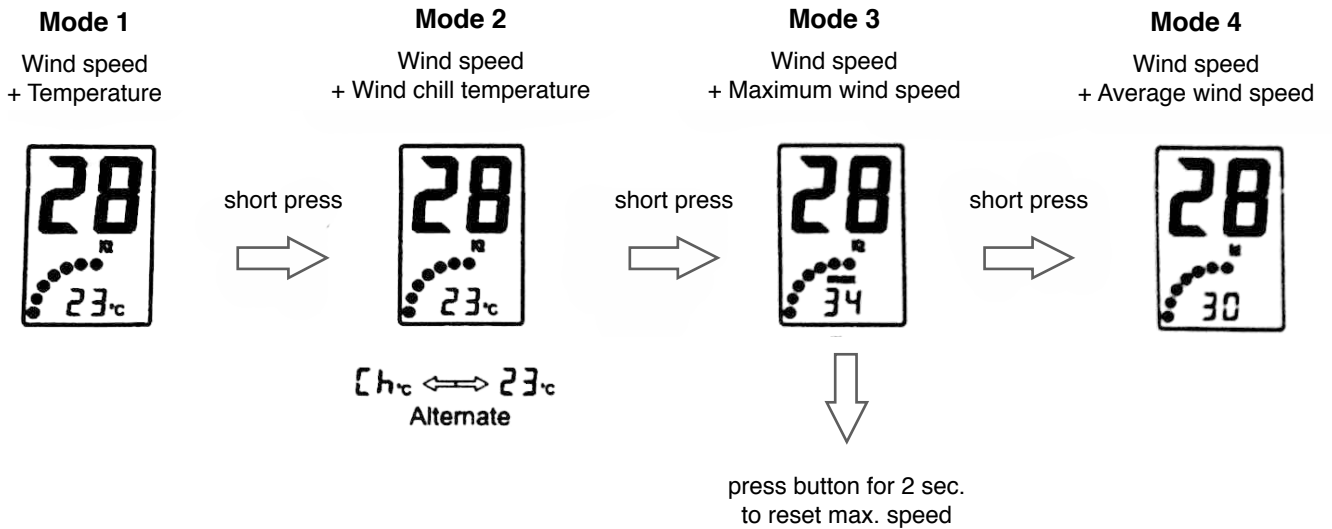
## MASTER RESET OF DISPLAY UNIT

Hold pressed left button when insert the battery. This will reset the receiver and return parameters to factory settings. Press **adjust the corresponding sensor address after resetting the receiver.**

## 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 misses. Manufacturer's responsibility is limited to repair replace the only when returned to the store where it was purchased together with original invoice.

## FUNTION



## SETTINGS

