

# WIRELESS ANEMOMETER WITH ALARMS FOR CONSTRUCTION SITES AND INDUSTRY

W410/D, W410XW/D, W410XL/D







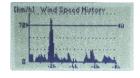


Navis **LIVEDATA**web interface

### **FEATURES**

- extremely easy mounting due to wireless sensor and magnetic mounting (optional accessories)
- up to 1300 m range with extended range sensor
- built-in audible alarm and red/yellow alarm lights
- 4 programmable alarm relay outputs with ON and OFF delays
- 2-zone wind direction alarm
- backlighted graphic LCD with large numbers
- Wi-Fi output for sending data to Navis LIVEDATA web interface \*
- Bluetooth output signal for smart devices via free application \*
- store wind history to SD card with real-time stamp \*
- GSM alarm SMS or push notiffications \* \*

# **HISTORY DISPLAYS**





### **FUNCTIONS**

- current wind speed and direction
- bar graph for current and peak wind speed
- 8 h wind speed history graph
- 8 h alarm history graph
- temperature
- logging of wind data to micro SD card \* (more than 1 year history)

# **APPLICATIONS**

- crane applications
  - mobile cranes
  - tower cranes
  - bridge cranes
- lift applications
- all applications where wind alarm is needed
- remote wind monitoring and logging
- depends on the model
- \*\* optional accessories



### **COMPATIBLE SENSORS:**





WS 010-1A (standard range WS sensor) WS 011-1A (extended range WS sensor) WS 011-1-EX (Atex certified WS sensor) WSD 010-1A (standard range WSD sensor) WSD 011-1A (extended range WSD sensor) WSD 011-1-EX (Atex certified WSD sensor)

# ORDERING (SEE THE SELECTION CHART ON PAGE 4):

# Display unit

1 W410/D display unit

1 W410XW/D display unit (Wi-Fi, Bluetooth, 4-20mA outputs)

1 W410XL/D display unit (Wi-Fi, Bluetooth, 4-20mA outputs, logging to micro SD card)

### Sets with sensors included

W410/WS W410/D with WS 010-1A sensor
 W410/WSD W410/D with WSD 010-1A sensor
 W410XW/WS W410XW/D with WS 011-1A sensor
 W410XW/WSD W410XW/D with WSD 011-1A sensor
 W410XL/WS W410XL/D with WSD 011-1A sensor
 W410XL/WSD W410XL/D with WSD 011-1A sensor







### Access to Navis LIVEDATA web interface:

- FREE BASIC ACCESS (1 min data refreshing, 24h graph, ...)
- PAYABLE ADVANCED ACCESS (2 seconds data refreshing, up to 1 month graphs and data logging, ...)



# **OPTIONS**

Individual Wind tunnel certificated version available

## **OPTIONAL ACCESSORIES**

- 1 External antenna with 3 m cable, magnetic mounting
- 2 YAGI antenna with 2 m cable
- 3 CM4000 Mobeye GSM Alarm module
- 4 Power adapter, 12V DC/1 A

# **OPTIONAL MOUNTING ACCESSORIES**

5 MDMA/410 Magnetic display mounting assembly





### **TECHNICAL DATA**

Wind speed measurement range: 0,6...50 m/s

Wind direction measurement range: 0°-359° (6° graph resolution)

**Temperature measurement range:** -30....+60 °C

Wind speed units: m/s, km/h, knots, mph

**Temperature units:** °C, °F

Wind speed averaging period: selectable 2 s, 10 s, 30 s

Wind direction averaging period: 10 s
Wind speed resolution: 0,1 m/s
Wind direction resolution: 6°
Temperature resolution: 1°C

Wind speed accuracy: +/- 2,5 %, calibration possible in 0,5% steps

Wind direction accuracy: +/- 2,5°, adjustable offset +/- 180°

Temperature accuracy: +/- 1°C

**Communication frequency:** 868 MHZ (915 MHz at FCC models)

Antenna input: 50 Ohm, SMA connector

Range:

with standard range sensor
 with extended range sensor
 with Yagi antenna
 up to 500 m visible distance
 up to 1300 m visible distance
 up to 3 x nominal range

Operating voltage:12 - 24 V DCPower consumption:max. 500 mATemperature operating range: $-10 \dots +60 \text{ °C}$ 

Outputs: 4 x relay, contact rating 2 A/24 V, programmable ON and OFF delays

Alarms: adjustable max. alarm - red light + continuous sound signal

adjustable pre. alarm - yellow light + interrupted sound signal

Sound signal: 93 dB/30 cm

Casing: 150 x 80 x 55 mm, PC (Polycarbonate)

Weight: 320 g

### ADDITIONAL FOR W410XW and W410XL

Wi-Fi data transmission rate: every 2 seconds

Wi-Fi transmission frequency: 2,4 GHz

Wi-Fi range: Up to 20 meters. It can varies with type of Wi-Fi router

**Bluetooth range:** Up to 30 meters

Navis LIVEDATA web interface URL: http://www.navis-livedata.com
The name of the app in the Google Play / Apple Store: WINDY ANEMOMETER

**Analog signal outputs:** 2 x 4...20 mA (not isolated, common ground with power supply)

 $4 \text{ mA} = 0 \text{ m/s}, 0^{\circ}$ 

 $20 \text{ mA} = \text{programmable } 10 - 50 \text{ m/s}, 359^{\circ}$ 

**ADDITIONAL FOR W410XL** 

Logging interval:

Data recording:

**Logging:** average and maximum wind speed, wind direction, temperature

with battery backed up real time stamp selectable: 10 s, 1 min, 10 min, 60 min minimum 12 months, .txt data format

**Memory card:** micro SD (enclosed)

Android application requires device with 4.3 OS or newer with Bluetooth BLE









# **SELECTION CARD - W410 DISPLAYS**

ТҮРЕ	FUNCTIONS				POWER SUPPLY		OUTPUTS		ALARMS			CONNECTIVITY		COMPATIBLE SENSORS			
	Wind speed & wind direction	History graphs	Logging to SD card	Storing to cloud (prescription needed)	External, 12 - 24 V DC	Battery	4 Relay outputs	4-20 mA output	Integrated sound alarm	Integrated alarm lights (orange + red)	Alarm outputs (relays)	BLUETOOTH to free App	WiFi to Navis livedata cloud	WS 010-1 (standard range, wind speed )	WS 011-1 (extended range, wind speed)	WSD 010-1 (standard range, wind speed & direction)	WSD 011-1 (extended range, wind speed & direction)
W410/D	V	V			V		V		V	V	V			V	V	V	V
W410XW/D	✓	<b>V</b>		<b>√</b>	V		V	V	✓	<b>√</b>	<b>V</b>	<b>V</b>	✓	<b>√</b>	<b>√</b>	✓	V
W410XL/D	٧	V	V	٧	V		<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	٧	<b>V</b>	<b>V</b>	V	V	V	V
W410/BAT/D	<b>V</b>	V				<b>V</b>			<b>V</b>	<b>V</b>				<b>V</b>	V	<b>V</b>	V
W410XB/BAT/D	<b>V</b>	V				<b>V</b>			<b>V</b>	<b>V</b>		<b>V</b>		<b>V</b>	V	<b>V</b>	V

# **SELECTION CARD - W410 SETS WITH SENSOR INCLUDED**

ТҮРЕ	FU	FUNCTIONS				POWER SUPPLY		OUTPUTS		ALARMS		CONNECTIVITY		INCLUDED SENSORS				
	Wind speed	Wind speed & wind direction	History graphs	Logging to SD card	Storing to cloud (prescription needed)	External, 12 - 24 V DC	Battery	4 x Relay outputs	4-20 mA output	Integrated sound alarm	Integrated alarm lights (orange + red)	Alarm outputs (relays)	BLUETOOTH to free App	WiFi to Navis livedata cloud	WS 010-1 (standard range, wind speed)	WS 011-1 (extended range, wind speed)	WSD 010-1 (standard range, wind speed & direction)	WSD 011-1 (extended range, wind speed & direction)
W410/WS	V		V			<b>V</b>		V		V	<b>V</b>	<b>V</b>			<b>V</b>			
W410/WSD		<b>V</b>	<b>V</b>			<b>V</b>		V		V	<b>V</b>	<b>V</b>					<b>V</b>	
W410XW/WS	V		V		V	<b>V</b>		V	V	V	<b>V</b>	<b>V</b>	V	V		V		
W410XW/WSD		<b>V</b>	<b>V</b>		<b>V</b>	<b>V</b>		<b>V</b>	V	<b>V</b>	<b>V</b>	V	V	V				V
W410XL/WS	V		<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>		V	V	<b>V</b>	<b>V</b>	V	<b>V</b>	V		V		
W410XL/WSD		<b>V</b>	V	V	<b>V</b>	<b>V</b>		<b>V</b>	V	<b>V</b>	<b>V</b>	V	V	V				V
W410/BAT/WS	V		V				<b>V</b>			V	<b>V</b>				<b>V</b>			
W410/BAT/WSD		<b>V</b>	V				<b>V</b>			<b>V</b>	<b>V</b>						V	
W410XB/BAT/WS	V		<b>V</b>				<b>V</b>			<b>V</b>	<b>V</b>		V			V		
W410XB/BAT/WSD		<b>V</b>	<b>V</b>				✓			V	<b>V</b>		V					✓