NAVIS

WIRELESS ANEMOMETER WITH ALARMS AND LOGGING FOR CONSTRUCTION SITES AND INDUSTRY

W410XL/D

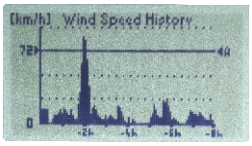
With history logging !

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

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 SD card
- battery backed real-time clock

APPLICATIONS

- crane applications
  - mobile cranes
  - tower cranes
  - bridge cranes
- lift applications
- all applications where wind alarm is needed
- remote wind monitoring and logging

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COMPATIBLE SENSORS:

WS 010-1 (standard range WS sensor)
WS 011-1 (extended range WS sensor)
WS 011-1-EX (extended range WS sensor)

WSD 010-1 (standard range WSD sensor)
WSD 011-1 (extended range WSD sensor)
WSD 011-1-EX (extended range WSD sensor)

ORDERING:

Display unit

1 **W410XL/D** display unit

Sets with sensors included

2 **W410XL/WS** display unit, WS sensor
3 **W410XL/WSD** display unit, WSD sensor

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2

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Access to Navis LIVEDATA web interface:
FREE BASIC ACCESS (1 min data refreshing, 24h graphs, ...)
PAYABLE ADVANCED ACCESS (2 seconds data refreshing, up to 1 month graphs and data logging, ...)

OPTIONS

Wind tunnel certificated version available

OPTIONAL ACCESSORIES

1 External antenna with 4 m cable, magnetic mounting
2 YAGI antenna

OPTIONAL MOUNTING ACCESSORIES

3 Display magnetic mounting assembly

1

2

3

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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
Antenna input:	50 Ohm, SMA connector
Range:	
- with standard range sensor	up to 500 m visible distance
- with extended range sensor	up to 1300 m visible distance
- with Yagi antenna	3-4 x nominal range
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
Operating voltage:	12 - 24 V DC
Power consumption:	max. 500 mA
Temperature operating range:	-30 ... +60 °C
Outputs:	4 x relay, contact rating 2 A/24 V, programmable ON and OFF delays
Analog signal outputs:	2 x 4...20 mA (not isolated, common ground with supply) 4 mA = 0 m/s (0°) 20 mA = programmable 10 - 50 m/s (359°)
Alarms:	adjustable max. alarm red light + continuous sound signal adjustable pre. alarm yellow light + interrupted sound signal
Sound signal (integrated buzzer):	85 dB/10 cm
Dimensions:	150 x 80 x 55 mm
Weight:	260 g

LOGGING FUNCTION

Logging:	average and maximum wind speed, wind direction, temperature with battery backed up real time stamp
Logging interval:	selectable: 10 s, 1 min, 10 min, 60 min
Data recording:	up to 12 months, .txt data format
Memory card:	micro SD (enclosed)

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

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