



# Maritime Wind Display WID411

Wind Data for Operational Decision Making



## Features

- Standalone, high-performance panel display
- Display can show both true and relative wind speed and direction
- High-contrast color scheme with brightness control
- Visual and audible alarms
- Robust electrical and mechanical design

Vaisala Maritime Wind Display WID411 is a compact and clear panel display. It can show true and relative wind speed and direction in real time.

## Benefits

- Clear and simple touch screen for improved safety
- Intuitive graphical user interface improves operational efficiency
- Cost-efficient due to short installation times – no further maintenance required
- Increased flexibility with various mounting options: desktop, panel, and bulkhead
- Wide operating temperature range – as low as -20°C (-4°F)

WID411 can help to improve the operational decision-making of ships' officers, resulting in better safety and efficiency. Other attributes include simplicity and excellent readability in bright and dim light, both of which are essential on the bridge. The display has a compact, easy-to-use 5.7-inch LCD touch screen and a clear and uncluttered user interface for simple operation.

## Robust Display with High Performance

WID411 is designed to meet several industrial specifications for electromagnetic tolerance, vibration, and packaging. The touch screen can be controlled with either bare or gloved hands or any other suitable object. WID411 is an independent, standalone wind panel display unit that can collect data straight from wind sensor.

## Integrated Touch Screen for Efficient Operations

WID411 has a full-size intuitive touch screen with graphical user interface for easy navigation from one view to another, such as from relative to true wind mode. The display settings are self-explanatory and therefore easily changeable by user.

There are visual and audible alarms in all views to warn of serious events, like sensor or system failures. A PIN code is required to access the maintenance mode's advanced settings, ensuring security and prevention of unauthorized changes.

## Easy Installation

In order to receive wind, position and heading data from ship information bus or Vaisala WINDCAP® Ultrasonic Wind Sensor WMT700, an RS-422/485 connection is standard. WID411 can be mounted in different ways depending on where it is installed. It can be easily mounted on a standard desktop, bulkhead, or IEC panel.

# Technical Data

## Operating Environment

Operating temperature	-20 ... +60 °C (-4 ... +140 °F)
Storage temperature	-30 ... +80 °C (-22 ... +176 °F)
Operating humidity	2 ... 95 %RH, non-condensing
Vibration compatibility	IEC60945:2002, Class Protected MIL-STD-810G 514.6C-3 Procedure I, Cargo Vibration Test
EMC compliance	IEC/EN 61326-1, Industrial Environment CISPR 22, Class B (EN 55022) CISPR 24 (EN 55024)

## Inputs and Outputs

Supply voltage	12 ... 28 VDC
Maximum power consumption at +20 °C (+ 68 °F)	15 W
Typical power consumption at +20 °C (+68 °F)	4 W
Data interfaces	Ethernet (10/100 MBit/s), USB, RS-422, RS-485

## User Interface

Display	5.7-inch TFT LCD, 640 × 480 VGA resolution, > 500 cd/m <sup>2</sup> luminance
Brightness control	Manual
User input interface	Touch screen
Audible alarm	> 80 dB(A) at 1 m (3 t 3 in), 2 kHz
Observation mode	Relative and true wind data views with wind rose, alphanumeric text
Navigation mode	Switch between data pages Alarm log Access to maintenance mode
Maintenance mode	Display cleaning (wipe) mode Touch screen calibration Volume setting Brightness setting Wind data display settings Communication settings Configuration file import/export Software update Advanced settings with security code

## Displayed Values

Wind speed and direction	Relative and true wind Instant 2-minute average 10-minute average 2-minute minimum 10-minute minimum 2-minute maximum 10-minute maximum 2-minute variation 10-minute variation
Wind speed units	m/s, knots

## Mechanical Specifications

Housing material	PC/ABS
IP rating	IP20
Flammability class	UL94 V-0
Mounting options	Panel, desktop, wall
Panel installation standard compatibility	IEC 61554
Panel mounting aperture dimensions	138 × 138 mm (5.43 × 5.43 in)
Panel mounting frame dimensions	144 × 144 mm (5.67 × 5.67 in)
Drop test compatibility	MIL-STD-810G 516.6 Procedure IV, Free Fall (Rough Handling)
Directive compliance	EMC, LV, WEEE, ROHS

## Accessories

Power supply	100 ... 240 V ~ 50 ... 60 Hz with EU/UK/US mains plug
Other	USB memory stick



**VAISALA**

www.vaisala.com

Published by Vaisala | B211362EN-D © Vaisala 2017

All rights reserved. Any logos and/or product names are trademarks of Vaisala or its individual partners. Any reproduction, transfer, distribution or storage of information contained in this document is strictly prohibited. All specifications — technical included — are subject to change without notice.