



### Features

- Stand-alone high-performance wind panel display, compliant with latest ICAO standards and recommendations
- Easy-to-use touch screen with intuitive graphical user interface
- High contrast day-time and night-time color schemes with display brightness control
- Coherent calculations, look and feel with Vaisala AviMet® systems
- Visual and audible alarms
- Desktop, panel, and wall mounting options
- Short installation times and virtually maintenance free
- Robust electrical and mechanical design

Vaisala AviMet® Wind Panel Display WID511 is designed for viewing real-time measurements from Vaisala wind sensors in aviation applications, in accordance with the latest ICAO standards and recommendations.

WID511 uses a compact 5.7-inch LCD screen suitable for aviation-related operating environments such as air traffic control towers, where excellent readability in both bright and dim light is required. The display is controlled using an easy-to-use resistive touch screen, with a clear, uncluttered user interface for simple operation.

### Robust display with high performance

WID511 is robust, designed and tested for demanding industrial electromagnetic and environmental specifications. It is equipped with a resistive touch screen that can be controlled with either bare or gloved hands, or any other suitable object.

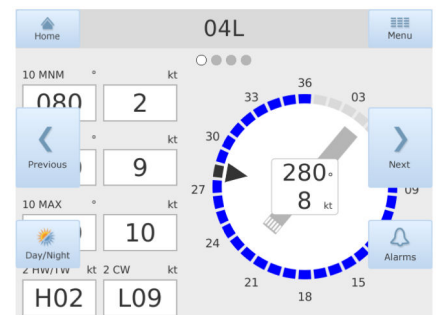
The display can be mounted in different ways depending on where it is installed. It can be easily mounted on a standard IEC panel, desktop, or wall.

### Integrated touch screen for efficient operations

WID511 has a full-size intuitive touch screen with a graphical user interface for easy navigation between separate wind data views – such as sensor pages – as well as simple display setting changes with straightforward item selection. Each wind sensor view is in wind rose and alphanumeric formats as default, suitable for operational use at airports in accordance with ICAO wind data display standards and recommendations.

WID511 can collect data from multiple wind sensors with a four-times-per-second interval as recommended by ICAO and WMO. To receive data from a Vaisala wind sensor, such as Vaisala WINDCAP® Ultrasonic Wind Sensor WMT700, Ethernet and RS-485 connections are standard.

There are visual and audible alarms in all views to warn of serious events, such as message or system failures. To prevent unauthorized changes to the display settings, a PIN code is required to access advanced settings in the maintenance mode.



# Technical data

## Operating environment

Operating temperature	0 ... +40 °C (+32 ... +104 °F)
Storage temperature	-20 ... +80 °C (-4 ... +176 °F)
Operating humidity	2 ... 95 %RH, non-condensing
IP rating	IP20
Flammability class	UL94 V-0

## 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), RS-422, RS-485, RS-232

## 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 ft 3 in), 2 kHz
Observation mode	Wind data pages
Navigation mode	Switch between data pages Alarm log Day-time and night-time views Access to maintenance mode
Maintenance mode	Display cleaning (wipe) mode Touch screen calibration Volume setting Brightness setting Product information view Advanced settings (PIN login) Configuration settings Configuration file import/export Software update

## Displayed values

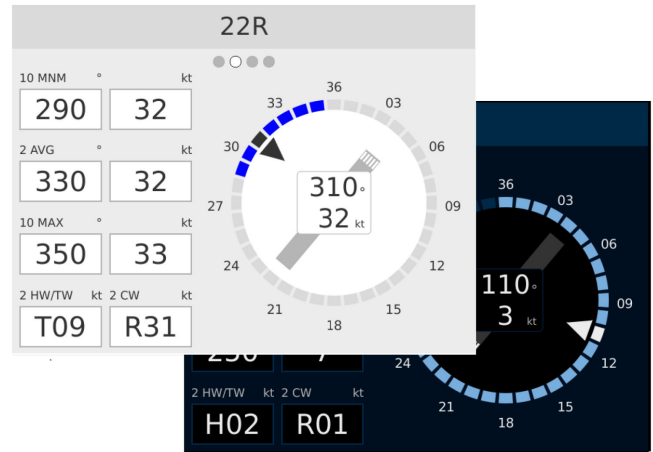
Wind speed and direction	According to ICAO standards and recommendations: 3-second average 2-minute average 10-minute minimum 10-minute maximum 10-minute variation Headwind, tailwind, crosswind
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## Compliance

Directives	EMC, LV, RoHS
Compliance marks	CE, UKCA, RCM
Drop test compatibility	MIL-STD-810G 516.6 Procedure IV, Free Fall (Rough Handling)
Vibration compatibility	MIL-STD-810G 514.6C-3 Procedure I, Cargo Vibration Test
EMC compatibility	IEC/EN/BS 61326-1, industrial environment
EMC emissions	CISPR 32 / EN/BS 55032, Class B

## Mechanical specifications

Housing material	PC/ABS
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)



WID511 day-time and night-time color schemes