

Vaisala AviMet® Wind Panel Display WID511



Features/Benefits

- 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
- Desktop, panel, and wall mounting options
- Short installation times and virtually maintenance free
- Visual and audible alarms
- Wide operating temperature range, as low as -20°C (-4°F)
- Robust electrical and mechanical design

For use in aviation applications

The 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. The display uses a compact 5.7" 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 WID511 is controlled using an easy-to-use resistive touch screen, with a clear, uncluttered user interface for simple operation

Robust display with high performance

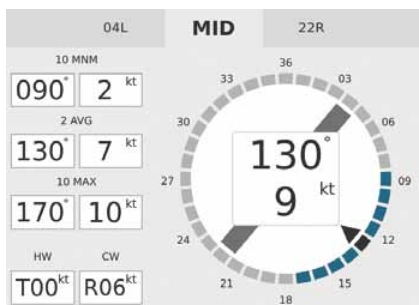
The WID511 is robust, designed to meet several industrial specifications for electromagnetic tolerance, vibration, and packaging. It is equipped with a resistive touch screen that can be controlled with either bare or gloved hands, or any other suitable object. The WID511 is an independent stand-alone wind panel display unit that can collect data from up to three wind sensors with a four-times-per-second interval as recommended by ICAO and WMO.

Integrated touch screen for efficient operations

The 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. 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 in order to prevent unauthorized changes to the display settings. The data views shown are configured at the factory according to each customer order.

In order to receive data from Vaisala wind sensor like Vaisala WINDCAP® Ultrasonic Wind Sensor WMT700, an Ethernet connection is standard. The WID511 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.



Technical Data

Operating environment

Temperature range, operating	-20 ... +60 °C (-4 ... +140 °F)
Temperature range, storage	-30 ... +80 °C (-22 ... +176 °F)
Humidity range, operating	2 ... 95 %RH, non-condensing
Vibration compatibility	MIL-STD-810G IEC 60945 Maritime Systems IEC 60068-2-6
Electromagnetic compatibility	IEC 60945 Maritime Systems IEC 61326-1 CISPR 22, Class B (EN 55022) CISPR 24 (EN 55024)

Inputs and outputs

Supply voltage	12 ... 30 VDC
Maximum power consumption at +20 °C (+68 °F)	15 W
Typical power consumption at +20 °C (+68 °F)	4 W
Data interfaces	EIA-232F, EIA-485 (isolated) Ethernet (10/100 MBit/s) USB SD and SDHC memory card

User interface

Display element	5.7" TFT LCD 640x480 VGA resolution 350 cd/m ² luminance
Brightness control	Manual
User input interface	Touch screen, resistive
Audible alarm	> 80 dB(A) at 1 meters, 2 kHz
Observation mode	Wind sensor page with wind rose, alphanumeric text boxes and labels
Navigation mode	Switch between sensor pages Alarm log Day-time and night-time views
Maintenance mode	Access to maintenance mode Display cleaning (wipe) mode Volume setting Brightness setting Product information view Touch screen calibration Configuration file import/export Software update Network settings Advanced settings login/logout

Default calculations

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 (wind direction only) Headwind, tailwind, crosswind
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Mechanics

Housing material	PC/ABS
Housing classification	IP50
Flammability compatibility	UL94 V-0
Mounting options	panel, desktop, wall
Panel installation standard compatibility	IEC 61554
Panel mounting aperture dimensions	138 mm x 138 mm
Panel mounting frame dimensions	144 mm x 144 mm
Packaging standard compatibility	MIL-STD-810F
Environmental standard compatibility	CE, RoHS, WEEE

Accessories

Power supply	115/230 VAC with EU/UK/US mains socket
Other	USB memory stick SD memory card



WID511 day-time and night-time color schemes

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