Vaisala AviMet® Weather Panel Display WID513
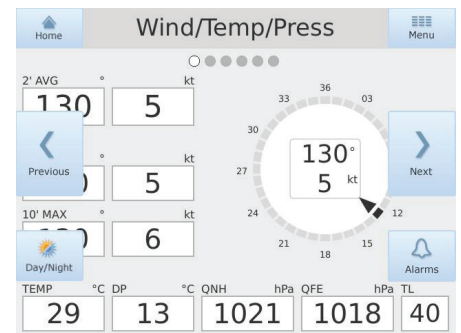

WID513 weather panel display close-up of a clear, uncluttered user interface for simple operation.

For Use in Aviation Applications

The Vaisala AviMet® Weather Panel Display WID513 is designed for viewing real-time weather information in accordance with 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 WID513 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 WID513 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 WID513 is an independent stand-alone display unit that can collect data from wind, temperature/ humidity and pressure sensors.

Integrated Touch Screen for Efficient Operations

The WID513 has a full-size intuitive touch screen with a graphical user interface for easy navigation between separate data pages – as well as simple display setting changes with straightforward item selection. WID513 includes multiple predefined data pages that can be set to be displayed. 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 settings in order to prevent unauthorized changes to the display settings. From these settings pages the authorized user can enter station specific parameters, such as declination and airport elevation. The WID513 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.

Features and Benefits

- Stand-alone high-performance panel display for wind, pressure, and temperature data
- 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

Technical Data

General

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 514.6C-3
	Procedure I, Cargo Vibration Test
Electromagnetic compatibility	IEC/EN 61326-1
	Industrial Environment
	CISPR 22, Class B (EN 55022)
	CISPR 24 (EN 55024)

Inputs and Outputs

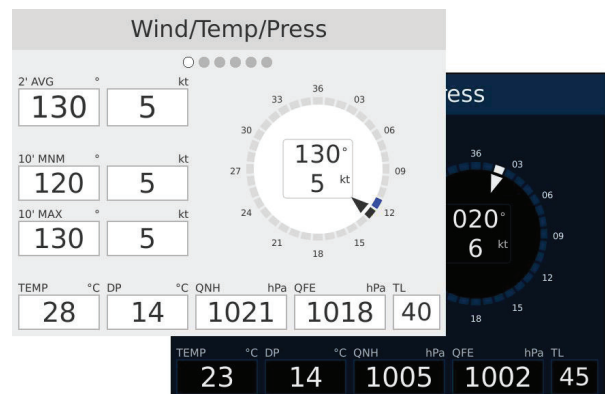|	
Supply voltage	12 … 28 VDC
Maximum power consumption	at +20 °C (+68 °F) 15 W
Typical power consumption	at +20 °C (+68 °F) 4 W
Data interfaces	Ethernet (10/100 MBit/s)
	RS-485

User Interface

Display element	5.7"TFT LCD
	640x480 VGA resolution
	>500 cd/m² luminance
Brightness control	Manual
User input interface	Touch screen, resistive
Audible alarm	> 80 dB(A) at 1 meters, 2 kHz
Observation mode	Multiple user selectable 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	3-second average
	2-minute average
	10-minute average
	10-minute minimum
	10-minute maximum (Gust)
	10-minute variation
Temperature and humidity	Air temperature
	Dew point
	Relative humidity
Pressure	Air pressure
	QNH
	QFE
	Transition level
	QFF
	3-hour tendency
	3-hour trend

Mechanics

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

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