



Features

- Generic data panel display for aviation purposes
- Easy-to-use touch screen with intuitive Graphical User Interface
- High contrast day-time and night-time color schemes with display brightness control
- Coherent 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

Vaisala AviMet® Data Panel Display WID512 is designed for viewing important information in aviation applications in a simple way.

WID512 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

WID512 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 supports up to 16 pages of information. Data shown on it is controlled by the host computer with a message format defining the content

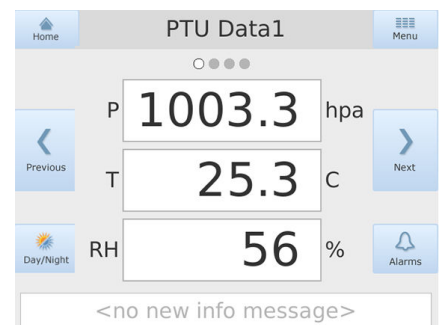
of each displayed page. WID512 can be used for different data viewing purposes, most commonly it is used as a back-up display for the AWOS system main user displays. The display is connected to the data sending unit, like the AWOS, via Ethernet or RS-485 connection.

Integrated Touch Screen for Efficient Operations

WID512 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. Each data page contains three data rows with three columns. Typically one data label, one value and one unit are shown on each row. There are visual and audible alarms in all views to warn of serious events like message or system

failures. A PIN code is required to access the maintenance mode advanced settings in order to prevent unauthorized changes to the display settings.

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.



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 | 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

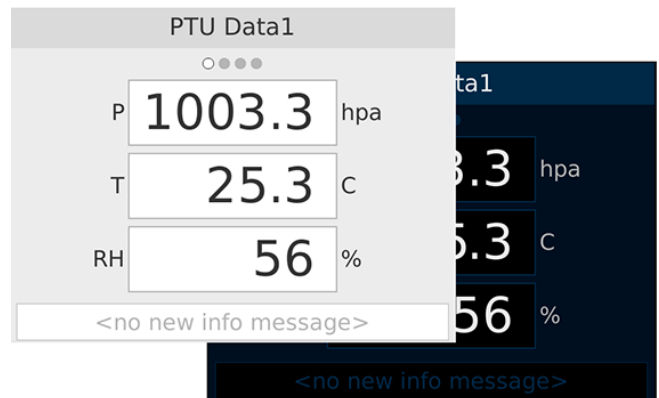
| | |
|--|----------------------------------|
| Supply voltage | 12 ... 28 VDC |
| Maximum power consumption at +20 °C (+68 °F) | 15 W |
| Typical power consumption at +20 °C (+68 °F) | 4 W |
| Data interfaces | Ethernet (10/100 MBit/s), RS-485 |

User Interface

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|----------------------|--|
| Display | 5.7-inch TFT LCD, 640 × 480 VGA resolution, > 500 cd/m ² luminance |
| Brightness control | Manual |
| User input interface | Touch screen, resistive |
| Audible alarm | > 80 dB(A) at 1 m (3 t 3 in), 2 kHz |
| Observation mode | Up to 16 data pages with a header text box and 9 alphanumeric text boxes |
| 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 |

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 |



WID512 day-time and night-time color schemes

