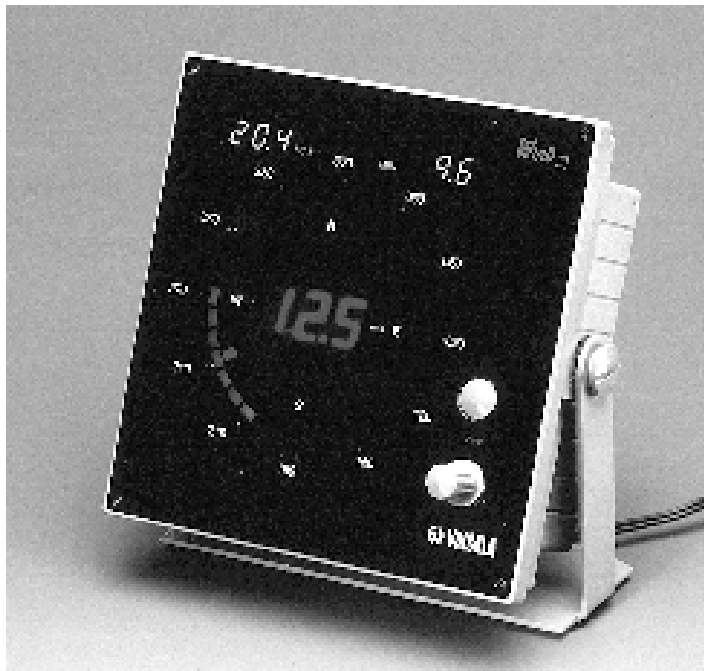


WIND 30

Multichannel Wind Display for Meteorology

- **Multichannel**
- **High contrast with automatic brightness control**
- **On-line configurable**
- **Desktop, panel or wall mounting**
- **Excellent solution for meteorological offices, harbours, industrial factories, etc.**



Vaisala's WIND 30 Multichannel Wind Display is a dedicated unit for displaying and processing wind data. Wind speed, as well as its maximum and minimum values are presented numerically with 3-digit 7-segment LED elements. The wind direction and its variance are displayed in two easy-to-read LED circles, the inner circle presenting wind direction and the outer one its variation.

Automatic brightness control of the display is enabled by means of a light sensor that responds to the ambient light conditions. The front panel filter is mat-finished having excellent optical qualities for light transmission. These features offer good readability in different light conditions.

A rotating switch and a 3-state push button are used to select between different wind measurement sites and operating modes (instantaneous, 2 minutes, 10 minutes). Configuration of the display and telecommunication modes is performed via a serial line using a PC terminal program. Configuration enables modification of the user interface, calculations and input/output functions.

The face size 144×144 mm fits to standard DIN panels. The slim line body design, however, enables mounting even to 115×133 mm panel openings. The stand included in the delivery enables using the display on a table or it can be fastened to a wall or ceiling.

Vaisala's wind sensors can be directly connected to the digital inputs of the display. The WIND 30 also has analog inputs for connection of analog sensors and transmitters (e.g. WAT12) to the display.

The standard opto-isolated RS-485 is typically used as a service line or to chain several displays together. This offers easy means to display wind data simultaneously in different locations. An optional communication module provides means to receive data from several measurement sites located far away. For this option, modules such as an isolated RS-485 line or modem are provided.

EMC as well as surge protection are standard features of Vaisala displays.

TECHNICAL DATA

WIND 30 MULTICHANNEL DISPLAY FOR METEOROLOGY

GENERAL

Type	Multichannel averaging wind display
Features	Automatic brightness control Desk top, panel or wall mounting (stand included)
Material	Aluminium frame, ABS case, grey
Dimensions	144 × 144 mm, depth 65 mm Body design allows 115 × 133 mm panel mounting
Weight	610 g
Supply voltage	10.5 – 15.5 VDC
Power consumption at max. brightness	20 W

USER INTERFACE

Speed	3-digit 7-segment red LEDs
Speed min./channel	3-digit 7-segment yellow LEDs
Speed max.	3-digit 7-segment yellow LEDs
Speed unit	Back-illuminated red LED; m/s, km/h, kt
Direction	Analog red/yellow 2 × 36 LEDs in a circle (inner circle for inst/avg, outer circle for variation)
Viewing angle	> 60°, any direction
Operating mode	Back-illuminated yellow LED; instant, 2 min or 10 min

Operation

- 3-state push button for manual light intensity adjustment, or self-test and reset control
- Rotating switch for operating mode selection
- Display parameter configuration with a PC terminal program via a serial line

INPUT/OUTPUT

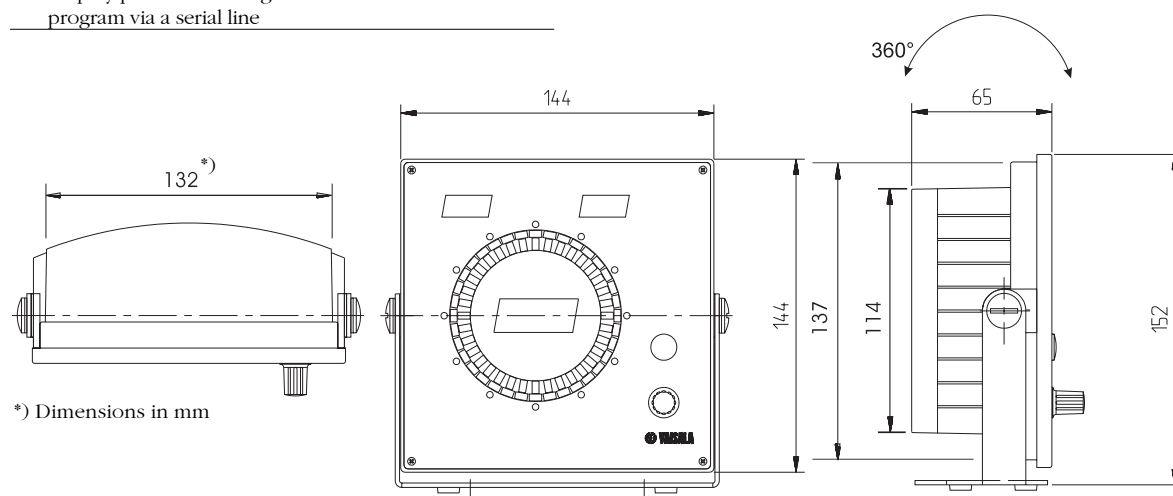
Serial I/O	• NMEA compatible opto-isolated serial input • 2-wire RS-485 transceiver
Optional I/O	Communication module interface for RS-485, modem, etc.
Parallel input	6-bit GRAY code input from digital wind direction sensor
Frequency input	Pulse or frequency input from digital wind speed sensors
Analog inputs	4-channel, current or voltage for analog sensors/transmitters
Relay coil drive	120 mA max. sink
Reference output	3.5 VDC, 5 mA
Connections	25 screw terminals 1.5 mm ² maximum wire

ENVIRONMENTAL

Storage temperature	-40 ... +60 °C
Operating temperature	+5 ... +55 °C
Humidity	2 ... 100 % RH
EMC	CE compliant
Vibration	according to MIL-STD-167-1

OPTIONS

Power supply for 115 ... 230 VAC



*) Dimensions in mm



VAISALA (UK) Ltd
Suffolk House
Fordham Road
Newmarket
Suffolk CB8 7AA
UNITED KINGDOM
Phone: +44 1638 67 4400
Telefax: +44 1638 67 4411

VAISALA Inc.
100 Commerce Way
Woburn, MA 01801 - 1068
USA
Phone: +1 781 933 4500
Telefax: +1 781 933 8029

Internet:
<http://www.vaisala.com>

Head Office:
VAISALA Oyj
PL 26, FIN-00421 Helsinki
FINLAND
Phone: +358 9 894 91
Telefax: +358 9 894 9227
Telex: 122832 vsala fi

VAISALA TMI Ltd
Vaisala House
349 Bristol Road
Birmingham B5 7SW
UNITED KINGDOM
Phone: +44 121 683 1200
Telefax: +44 121 683 1299

VAISALA Inc.
Artais Division
7450 Industrial Parkway
Plain City, OH 43064 - 9005
USA
Phone: +1 614 873 6880
Telefax: +1 614 873 6890

VAISALA GmbH
Postfach 540267
D-22502 Hamburg
DEUTSCHLAND
Phone: +49 40 851 763-0
Telefax: +49 40 850 8444

VAISALA SA
3, Parc Ariane
Saint-Quentin-En-Yvelines
F-78284 Guyancourt Cedex
FRANCE
Phone: +33 1 3057 2728
Telefax: +33 1 3096 0858

VAISALA KK
42 Kagurazaka 6-Chome
Shinjuku-Ku,
Tokyo 162-0825
JAPAN
Phone: +81 3 3266 9611
Telefax: +81 3 3266 9610

VAISALA Pty. Ltd.
3 Guest Street
Hawthorn, VIC 3122
AUSTRALIA
Phone: +61 3 9818 4200
Telefax: +61 3 9818 4522
A.C.N. 006 500 616

VAISALA Beijing
Representative Office
Room 518, 520
Wangfujing Grand Hotel
No. 57 Wangfujing Street
Beijing 100006
PEOPLE'S REPUBLIC OF CHINA
Phone: +86 10 6522 4050
Telefax: +86 10 6522 4051