



Datasheet

OMC-138 Wind Display

Observer instruments offers the widest range of display instruments, for local read out of meteorological parameters. The OMC-138 is the standard wind display for land applications and fixed offshore objects. The display can be provided with industrial standard outputs either as standard or as option (4..20 mA).

The unit was initially designed for use in combination with the OMC-160 wind sensor but nowadays the display can read several other sensors as well. The OMC-138 is suitable for flush mount and is housed in a standard 144x144 housing. Besides the normal Observer front the unit can also be supplied with a black OEM front, called the Black line.

Features

- Double led circle
- Gust display
- 2 minutes average & 10 minutes average
- m/s, knots, mph, km/h and Beaufort
- Analogue output wind speed & direction
- NMEA-0183 output
- Compatible with several wind sensors
- Remote brightness control (optional)
- 4..20mA or 0...1 volt analogue output signals for speed & direction (optional)

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

For pricing or any further information, please contact Omni Instruments Ltd.



General

The OMC-138 digital wind display is a combined display for wind speed and wind direction.

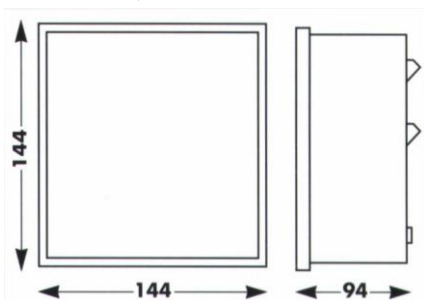
The display is housed in a 144 x 144 mm. Din size casing suitable for panel mounting. A tabletop version is available. Any inclination is allowed and no additional control units are required.

Wind direction is indicated within a double LED circle, with the four wind directions. Each circle consists of 36 LED's for average direction and wind variation. Inside this circles a three digit numeric display indicates the wind speed.

A second three-digit display located in the lower right corner provides maximum or minimum wind speed information.

The wind information can be displayed in m/s, km/h, mph or Beaufort. Selection of these units can be made using the front panel buttons. Another MENU option is the choice of the averaging interval, which can be set at 2 minutes, 10 minutes or every other user-programmed "user" interval. When not in the MENU mode the ▲ and ▼ keys are used for brightness control or gust reset.

The unit was primary intended to use with the Obsermet wind sensors, but other, most common sensors can be interfaced to the display.



Specifications

Data summary displays

- Double LED circle with 36 LED's
- One 3 digits red LED displays SIZE 14.3 mm height
- One 3 digits red LED display size 10 mm height

Power requirements

- 230 VAC, 115 VAC, 24 VDC, 20VA max.

Inputs

- 1 digital pulse input
- 1 analogue input (pot meter)
- 1 RS422 or current loop input

Outputs

- Daisy chain RS422 or current loop
- 2 analogue outputs (optional)
- digital output RS422

Dimensions

- Size 144 x 144 x 94 mm standard DIN size
- Weight 800 gram
- Maximum panel thickness 8mm

Environmental

- Operating temperature -30 to 60 deg. C.
- Moisture protection IP40
- Humidity 5 to 90%
- EMC EN 50081-1 class B, EN 50082-2

Optional

- OMC-127 dual analogue outputs 4..20mA or 0...1 Volt
- OMC-129 remote brightness control
- OMC-775 tabletop housing with bracket

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