



## Datasheet

# OMC-131 Wind Display

Observator Instruments offers the widest range of display instruments, for local read out of meteorological parameters. The OMC-131 is a true and relative wind display which is suitable for 19" rack mounting and is used on many sea going vessels, ferries and FPSO's. The unit is capable of reading in two wind sensors, which is more a less a naval requirement having a port side and star board sensor.

The sensor might be manual or automatically be selected. While reading in a (D)GPS signal the unit is capable of calculating and indicating true wind information at normal ship speeds. In case the gps signal is getting inaccurate, the OMC-131 automatically switches over to Gyro and log.

## Features

- Can contribute in finding most economic route
- Ship speed & heading from gyro and log and/or (D)GPS
- Scaling in m/s, km/h, kts, mph and Beaufort
- Selectable averaging interval time in 2 min., 10 min. or user programmable
- Indication of gust and minimum wind speed
- Indication of actual ship speed and heading
- Operation with 1 or 2 wind sensors
- Brightness control (remote brightness control optional)
- Compatible with most common wind sensors
- NMEA output for true and relative wind speed and direction

## GENERAL

The OMC-131 true wind display is specially designed for easy read out of “true” and “relative” wind information on board sea going vessels.

The unit is suitable for panel mounting. Any inclination is allowed and no additional control units are required.

Information from (D)GPS required for calculation of the true wind. When the (D)GPS information is not valid, or at low speeds, the display uses heading from Gyro and speed from log.

Relative wind direction is indicated within a double circle relative to the longitudinal axis of the vessel. Both circles consist of 36 LED's for average direction and variation. True wind direction is indicated within a second circle with the four wind directions consists of 36 LED's for average direction. Inside these circles numeric displays indicates the corresponding relative and true wind speed. This information can be displayed in m/s, knots, mph, km/h or Beaufort. Selection of these units can easily made using the MENU option. 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 up and down keys are used for brightness control or gust reset.

Many in- and output connections are available, either as standard or as option. The unit was primary intended to use with the Obsermet OMC-160 wind sensors, but other, most common sensors can be connected to the system.

## DATA SUMMARY

### DISPLAY

- Two LED circles 36 LED's for true and rel. wind direction
- Four 3 digits red LED displays size 14.3 mm height
- Two 3 digits red LED displays size 10 mm height

### POWER REQUIREMENTS

- 230 VAC, 115 VAC, 24 VDC and 12 VDC optional. 30VA max.

### INPUTS

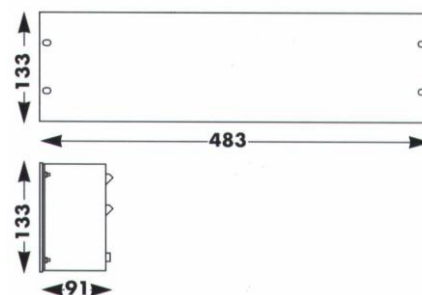
- 1 digital pulse input
- 1 analogue input (pot meter)
- 4 RS422 or current loop inputs

### OUTPUTS

- 2 analogue outputs (optional)
- 4 RS422 or current loop (NMEA 0183)

### DIMENSIONS

- Size 483 X 133 X 91 MM, standard 19" 3HU
- Weight 2350 gram



### 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

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