

OMC-137 Advanced Wind Display

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Observer instruments offers the widest range of display instruments, for local read out of meteorological parameters. The OMC-137 advanced wind display was specially designed for aeronautical purposes. Besides the standard wind parameters this display also indicates Numeric wind direction, Maximum wind speed, Average wind speed and Minimum wind speed. Visual alarms can be indicated when wind speed is above 10 knots and wind variation exceeds 60 degrees. The OMC-137 can handle 4 wind sensors and is provided with a memory. So in case another sensor is selected, the 10 and 2 minute average parameters are available instantaneous. Obviously the OMC-137 can read in most industrial standard sensors.

Features

- Developed for Aeronautical applications
- Meets all ICAO recommendations
- Four wind sensor inputs
- Selected sensor is indicated by runway heading
- All parameters shown on separate displays
- Visual speed alarm above 10 kts.
- Visual variation alarm above 60 degrees
- Magnetic North Alignment
- 2 minutes, 10 minutes and user averaging time
- Standard provided with serial outputs RS232 / RS422
- Brightness control



Optional housing



Airfield application

GENERAL

The OMC-137 advanced digital wind display unit is specially designed for easily read out of wind information for aeronautical purposes and will meet all ICAO recommendations. The display is housed in a 144 x 288 mm. Din size casing suitable for panel mounting. A tabletop housing is available. Any inclination is allowed and no additional control units are required.

The wind direction is indicated within a double LED circle of 36 leds for respectively average direction and variation. Inside this circles a three-digit digital display indicates the wind speed. A second three-digit display located in the lower right corner provides maximum or minimum wind information indicated by LED's in front of the display. The four additional displays show the average wind direction and the maximum, minimum and average wind speed.

Selection of the display settings and the selected sensor can be made using the front panel buttons. The wind information can be displayed in m/s, knots, mph, km/h or Beaufort. Another MENU option is the choice of the averaging interval, which can be set at 2 minutes, 10 minutes or every other "user" programmed interval. When not in the MENU mode the up and down keys are used for brightness control, gust reset, or magnetic North alignment.

Three LED's notify the user when the average direction is above 60 degrees, when the average speed is above 10 knt and if a sensor is malfunctioning. The unit can read in four wind sensors, the sensor location is indicated by means of the runway heading. Many in- and output connections are available, either as standard or as option. The unit is primary intended to use with the Obsermet sensors, but other, most common sensors can be interfaced to the display. All information of the connected sensors can be transmitted within the serial output string.



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DATA SUMMARY DISPLAYS

- Double LED circle for direction
- Five 3 digits red LED displays size 14.3 mm height
- One 2 digits sensor select indicator
- One 3 digits max/min wind speed

POWER REQUIREMENTS

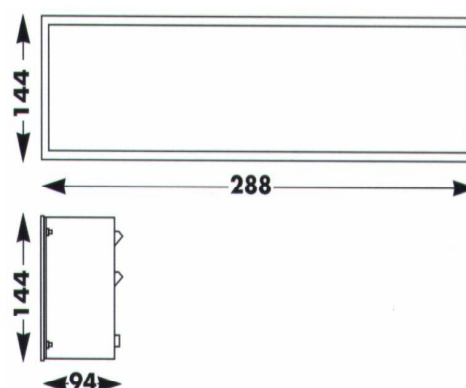
- 230 VAC, 115 VAC, 24 VDC and 12 VDC optional. 30VA max.

INPUTS

- 1 digital pulse input
- 1 analogue input (potmeter)
- 4 RS422 or currentloop inputs
- 1 RS232 port for setting-up

OUTPUTS

- Daisy chain RS422 or currentloop
- 2 analogue outputs (optional)



DIMENSIONS

- Size 288 x 144 x 94mm standard DIN size
- Weight 1700 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-128 digital output RS422
- OMC-129 remote brightness control
- OMC-776 tabletop housing with bracket