

General

The OMC-160-3 comprises a combined in-line wind speed and wind direction sensor. The system is robust, corrosion resistant and easy to install. The wind speed sensor is a rotary-cup type, made UV resistant high quality polycarbonate. The wind direction sensor is a wind vane type, made from stainless steel.

The wind sensor is supplied with a RS422 NMEA0183 output. Output frequency standard 4 Hz. Option 1 Hz. Baudrate standard 4800 option 9600.

The wind sensor comes with a vertical mounting bracket which includes a junction box and two u-bolts for mast mounting.

The OMC-160-3 is a cup and vane anemometer. Cup and vane anemometers are the most common instrumentation for measurement of wind speed and direction. Cup and vane anemometers are the primary sensors for wind measurement used by the leading meteorological services all over the world. Therefore the readings of the OMC-160-3 anemometer are inter-comparable with the readings of other cup and vane anemometers without any conversions.

For a more comprehensive discussion on the measurement principle please refer to Chapter 5 of the WMO CIMO guide1.

Data summary

Power requirements

- 8 TO 30 VDC - 60 mA
- 24VDC -2A (Heating)

Output

- RS422 NMEA-0183 V 4.1, IEC 61162-1

Dimensions, as per sketch

- Weight 6.5 kg
- Mounting pole with two clamps for pole 35-60 mm dia

Environmental

- Operating temperature -25 to 70°C
- Ingress Protection IP65 acc. To EN-60529
- Humidity 5 to 95%
- EMC EN 50081-1 class B, EN 50082-2
- Conform RoHS directive 2002/95/EC en 2005/18/EC

Accuracy

- Wind speed: better than 2% FRO
- Wind direction: ± 2 degrees
- Speed range: 0,3...75 m/s



OMC-160-3 installed at a container terminal

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