



COMBINED WIND SENSOR MODEL MW 21

This wind sensor combines an anemometer (wind speed sensor) and a wind vane on a single bracket. The sensors measure optically, so there is no wear on electronic components. The stainless steel precision bearings are sealed on both sides, and lubricated for a wide temperature range. The powder coating applied to the stainless steel mounting bracket makes it resistant to seawater etc.

The anemometer has three light-weight cups of a special design. They ensure low threshold and that the instrument responds quickly to changes of the wind. The absence of electromechanical contacts also ensures fast response and maximum reliability. The anemometer has an operating range of 0 to 50 m/s.

The wind vane is balanced, so it does not have any preferred position. The low weight of the vane enables it to respond to minor wind speeds.

The wind vane measures the wind direction from 0 to 360°, and divides it via a 6 bits Gray code in 64 directions. Consequently its resolution is 5.6°.

The instrument is protected against inductive interference in accordance with prevailing international standards. The sensor should be installed at a location which permits free wind access.

Meteorological advice regarding suitable locations can be obtained from Mierij Meteo.





TECHNICAL SPECIFICATIONS: COMBINED WINDSENSOR MODEL MW 21

WIND VANE

Operating Range:	0 - 360°.
Resolution:	5.6°.
Codedisc error:	<3°

ANEMOMETER

Operating Range:	0 tot 50 m/s.
Resolution:	0.04 m wind run.
Starting Speed:	< 0.5 m/s.

PHYSICAL

Size:	780 x 555 mm. Housing ø48mm.
Weight:	2 Kg.
Material:	Stainless steel / powder coated anodised aluminium 51ST
Operating Temperature:	-20..+60°C.
Protection:	IP-65.

INSTALLATION

Installation:	Vertically, free-standing, on a ø 48 mm mast.
Mounting:	Socket joint with M8 socket screws.
Connection:	7-pole Binder Plug, series 693.

ELECTRICAL

Supply Voltage:	15 VAC or 18...24 VDC.
Power Consumption:	100 mA.
Output Signal:	Wind speed: Pulse differential +/- 8V Wind direction: digital differential +/- 8v.
Output impedance:	400Ω / 10 nF.
Static Discharge:	The instrument is protected against outside inductive interference up to a Discharge power of 1500 Watt.

OTHER

Maintenance:	Once a year, depending on local conditions.
Calibration Certificate:	A calibration certificate with the validity of 1 year is available on request
Warranty:	1 year.