



# WIND SENSORS "PRO-NAV"

Wind direction and wind speed

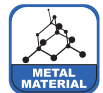
## Open sea and storm resistant!

Seawater-resistant and special reinforced measuring elements assure high reliability over a wide working life. The special coating ensures the sensors to be used on vessels, off-shore wind energy plants and further applications close to the sea.

The housing and the measuring elements are made from seawater-resistant aluminium and the design was aerodynamically optimised. The heating integrated in the head of the sensor as well as the reinforced, double bearing axis makes this sensors to the most robust version of it's class.

- ▶ re-inforced measuring elements, axis and bearing for high vibration resistance
- ▶ special coating for error-free long time use
- ▶ low start-up values and wide measuring range up to 60 m/s
- ▶ wear-free data collection for high accuracy and resolution of the measuring values

ship meteorology • wind energy plants • robust industry applications • cranes • buoys and other off-shore applications



Professional Line	Wind Sensors PRO-NAV	
<b>Id-No.</b>	<b>(14523) Wind direction</b> <b>00.14523.430 040</b>	<b>(14524) Wind speed</b> <b>00.14524.400 040</b>
Measuring elements:	reinforced wind vane • aluminium • special surface	reinforced 3-armed cup • aluminium • special surface
Measuring range:	0...360°	0.6...60 m/s
Accuracy:	± 2°	± 0.3 m/s ≤ 10 m/s • ± 0.6 m/s ...60 m/s
Resolution/ Starting value:	< 1° • < 0.5 m/s	< 0.1 m/s • < 0.6 m/s
Output:	4...20 mA = 0...360° • 4 Hz update rate	4...20 mA = 0...60 m/s • 4 Hz update rate
Weight:	0.4 kg	0.35 kg
Measuring principle:	Hall Sensor Array, non-contact	
Range of application:	temperatures -40...+70 °C • heated • wind speed max. gusts 100 m/s • humidity 0...100 % r.h.	
Supply voltage:	24 V <sub>DC</sub> (20...28 V <sub>DC</sub> ) • 18 W heating • max. 800 mA • The heating within the sensor head prevents blocking of the moving parts under most climatological conditions.	
Housing:	seawater-resistant aluminium • anodised and white coated • IP 65 in upright position • M12 cable-plug connection • stainless steel nut and lock washer	
Included in delivery:	1 sensor • 15 m cable • with 4 pin M12 plug connector	