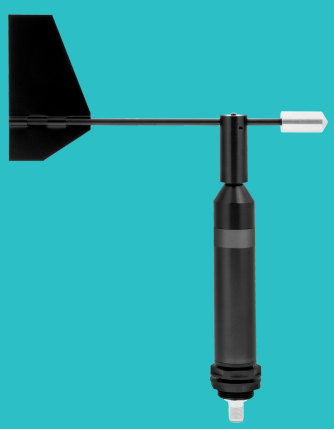
PRODUCT OVERVIEW

PROFESSIONAL Wind Direction Sensor

APPLICATIONS

- Wind turbines
- Wind warning systems
- Airports
- Maritime



Meets the requirements for meteorological measurements according to WMO

The PROFESSIONAL wind direction sensor meets the highest WMO requirements for reliability and accuracy across a very wide measurement range. Its aerodynamically optimized design, combined with a special surface treatment and water traps in the sensor head, ensures excellent seawater resistance and suitability for offshore use. With a low starting value of less than 0.3 m/s due to its non-contact measuring principle and a high-quality coating for maximum saltwater resistance, it is ideal for use in all climate zones.

- Very low start-up value of due to non-contact measuring principle
- Extremely high salt water resistance due to high-quality coating
- Optimal heating concept for use in all climate zones

PRODUCT OVERVIEW

PROFESSIONAL Wind Direction Sensor

Professional Line	PROFESSIONAL
Id-No.	00.14521.110040
Measuring range	0...360°
Accuracy	± 1°
Resolution	1°
Starting value	0.3 m/s
Output	4...20 mA = 0...360°
Update rate	4 Hz
Range of application	Temperatures -40...+70 °C (heated); max. gusts of 100 m/s
Supply voltage	With electronically controlled shaft heating, 18 W; 24 VDC (20...28 VDC); max. 800 mA
Measuring elements	Blade wind vane, dimensionally stable; specially coated aluminum
Measuring principle	Magnetical Positioning Encoder System (MPES)
Dimensions	Wind vane L 174 mm; H 310 mm
Housing	Aluminum specially coated, black, seawater resistant; IP 65 in upright position Ø 32 mm; bore Ø 30 mm for mounting at a mast or traverse
Weight	0.4 kg
Accessories (order separately)	32.14567.060000 Sensor cable with plug connection; length: 12 m 32.14627.010000 Traverse; sensor distance: 75 cm 32.14567.006000 Mast adapter; diameter: 50 mm 32.14565.019000 Lightning rod

As of: 06.01.2026