

## PRO-WEA WIND SPEED SENSOR



The universal-genius ...

with improved protection against electrostatic discharge! Thus these high-tech sensors are predestined for operation in lightning-prone regions. The design is aerodynamically optimised and both the housing and the measuring elements are made of seawater resistant aluminium. Further advantages include the integrated, controlled heating and the optionally available cable with high UV-resistance. PRO-WEA wind sensors are robust and best suited for year-round applications in most climatic zones.

- improved protection against electrostatic discharge
- especially robust due to rein-forced axis
- high measuring range of 60 m/s
- low starting values of < 0.5 m/s
- very high resolution of measur-ing values

### APPLICATIONS

- wind power plants
- lightningprone regions
- all kinds of industrial applications
- crane systems
- open-pit mining

| Professional Line    | PRO-WEA Wind speed sensor   |
|----------------------|---|
| Id-No.               | 00.14524.100040   |
| Measuring range      | 0.5...60 m/s  |
| Accuracy             | $\pm 0.3 \text{ m/s} \leq 10 \text{ m/s}$ • $\pm 0.5 \text{ m/s} \dots 60 \text{ m/s}$  |
| Resolution           | < 0.1 m/s   |
| Starting value       | < 0.5 m/s   |
| Output               | 4 Hz update rate • 4...20 mA = 0...60 m/s • at the current output (4...20 mA) a load of max. 600 Ohm must not be exceeded   |
| Range of application | temperatures -40...+70 °C heated • wind speed max. gusts 100 m/s • humidity 0...100 % r.h.  |
| Supply voltage       | 24 VDC (20...28 VDC) • 18 W heating • max. 800 mA • the heating within the sensor head prevents blocking of the moving parts under most climatological conditions |
| Measuring elements   | aluminium • special surface • 3 armed cup rotor   |
| Measuring principle  | Hall Sensor Array, non-contact  |
| Housing              | seawater resistant aluminium • IP 65 in upright position • M12 cable-plug connection • stainless steel nut and lock washer  |
| Weight               | 0.35 kg   |
| Included in delivery | 1 sensor • 15 m cable • with 4 pin M12 plug connector   |

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