

# EOLOS-IND STATIC WEATHER SENSOR



Wind speeds up to 85 m/s measurable

The perfect weather sensor for a wide range of applications. The integrated sensors in the weather module measure the ambient parameters with high precision. The compact construction of the static measuring system and the space saving, robust housing make the sensor extremely durable.

- Very high wind speeds up to 85 m/s measurable
- Without moving measuring elements
- Five weather parameters measurable: two wind parameters, air temperature, relative humidity, air pressure, plus dew point
- Lamella shelter for accurate measurements of the temperature-humidity sensor
- Optimal heatable for all climatic zones
- Easy to install, easy to maintain

## APPLICATIONS

- Wind turbines
- Traffic meteorology
- Weather services and environmental agencies
- Chemical and industrial plants
- Power plants
- Wastewater treatment plants and landfills

Professional Line	EOLOS-IND
Id-No.	Static Weather Sensor EOLOS-IND H heated • Id-No. 00.16430.010002
Meas. range wind direction	0...360°
Meas. range wind speed	0.1...85 m/s
Meas. range air temperature	-40...+70 °C
Meas. range rel. humidity	0...100 % r. h.
Meas. range barometric pressure	600...1100 hPa
Accuracy wind direction	± 3°
Accuracy wind speed	± 0.5 m/s ± 5 % of meas. value
Accuracy air temperature	± 0.8 °C (v > 2 m/s)
Accuracy rel. humidity	± 3 % (10...90 %) • ± 4 % (0...100 %)

Continued on page 2

Professional Line	EOLOS-IND
Accuracy barometric pressure	± 2 hPa (-30...+70 °C)
Resolution wind direction	1°
Resolution wind speed	0.1 m/s
Resolution air temperature	0.1 °C
Resolution rel. humidity	0.5 % r. h.
Resolution barometric pressure	0.1 hPa
Protocols	NMEA 0183 • WIMWV • WIMHU • WIMMB • WIMTA
Interface	serial • RS 422/ talker • baud rate 4800 • 1 Hz (meas. cycle of 10 Hz) • 8 N 1
Range of application	temperature -40...+70 °C heated • wind speed 0...100 m/s • 0...100 % r. h.
Supply voltage	24 VDC (-22 %/ +34 %) • max. 2.5 A • heating: 24 VDC/ 70 W (max. 3 A) • electr. controlled
Dimensions	H 382 mm • Ø 120 mm • mast adapter Ø 50 mm for mounting on standard pipe
Housing	aluminium • anodised • IP 66
Weight	approx. 2.5 kg
Options (order separately)	Indicator unit e.g. (14742) METEO-LCD • Data logger e.g. met[LOG] • Mast and power supply unit • Visualisation and evaluation software MeteoWare-CS3
Accessories (order separately)	32.16420.066100 Cable 10 m • 12-pole bayonet plug • ready-for-use

As of: 14.07.2024