

# EOLOS-IND STATIC WEATHER SENSOR



The perfect weather sensor...

for a wide range of applications, especially for use under harsh environmental conditions. 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 reliable and durable.

- very high wind velocities up to 85 m/s measurable!
- without moving measuring elements
- 5 weather parameters measurable: 2 wind parameters, air temperature, relative humidity, air pressure, plus dew point!
- lamella shelter for accurate measurements of the temperature-humidity sensor
- optimally heatable
- easy installation, easy to maintain

## APPLICATIONS

- land applications under any conditions
- wind turbines
- railway line monitoring
- traffic meteorology
- weather services and Offices of the Environment
- chemical and industrial facilities
- power plants, sewage plants and landfills

Professional Line	EOLOS-IND Static weather sensor
Id-No.	Static Weather Sensor EOLOS-IND H heated • Id-No. 00.16430.010002 Static Weather Sensor EOLOS-IND unheated • Id-No. 00.16430.000002 • range of application: -30...+70 °C • under non-icing conditions
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 %)

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Professional Line	EOLOS-IND Static weather sensor
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. SYNMET-LOG or 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

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