



# STATIC WEATHER SENSOR "EOLOS-IND"

Wind · Air temperature · Rel. humidity · Barometric pressure  
5 parameters plus dew point!

## The perfect weather sensor...

for a wide range of applications, especially for use under harsh environmental conditions. The integrated sensors in the weather module are measuring 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
- ▶ lamella shelter for accurate measurements of the temperature-humidity sensor
- ▶ optimal heatable
- ▶ easy installation, easy to maintain

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	(1643)	Static Weather Sensor EOLOS-IND H	Id-No. 00.16430.010 002																							
Parameters:		<table border="1"> <thead> <tr> <th>Meas. range:</th> <th>Accuracy:</th> <th>Resolution:</th> </tr> </thead> <tbody> <tr> <td>Wind direction:</td> <td>0...360°</td> <td>± 3°</td> <td>1°</td> </tr> <tr> <td>Wind speed:</td> <td>0.1...85 m/s</td> <td>± 0.5 m/s ± 5 % of the meas. value</td> <td>0.1 m/s</td> </tr> <tr> <td>Air temperature:</td> <td>-40...+70 °C</td> <td>± 0.8 °C (v &gt; 2 m/s)</td> <td>0.1 °C</td> </tr> <tr> <td>Relative humidity:</td> <td>0...100 % r. h.</td> <td>± 3 % (10...90 %) · ± 4 % (0...100 %)</td> <td>0.5 r. h.</td> </tr> <tr> <td>Barometric pressure:</td> <td>600...1100 hPa</td> <td>± 2 hPa (-40...+85 °C) · ± 0.5 hPa at 25 °C</td> <td>0.1 hPa</td> </tr> </tbody> </table>	Meas. range:	Accuracy:	Resolution:	Wind direction:	0...360°	± 3°	1°	Wind speed:	0.1...85 m/s	± 0.5 m/s ± 5 % of the meas. value	0.1 m/s	Air temperature:	-40...+70 °C	± 0.8 °C (v > 2 m/s)	0.1 °C	Relative humidity:	0...100 % r. h.	± 3 % (10...90 %) · ± 4 % (0...100 %)	0.5 r. h.	Barometric pressure:	600...1100 hPa	± 2 hPa (-40...+85 °C) · ± 0.5 hPa at 25 °C	0.1 hPa	
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Range of application:		temperature -40...+70 °C heated · wind speed 0...100 m/s · 0...100 % r. h.																								
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																								
Supply voltage:		24 V <sub>DC</sub> (-22 %/ +34 %) · max. 2.5 A · heating: 24 V <sub>DC</sub> / 70 W (max. 3 A) · electr. controlled																								
Housing:		aluminium · anodized · IP 66																								
Dimensions/ Weight:		H 382 mm · Ø 120 mm · mast adapter Ø 50 mm for mounting on standard pipe · 2.5 kg																								
Variety:	(1643)	<b>Static Weather Sensor EOLOS-IND unheated</b>	<b>Id-No. 00.16430.000 002</b>																							
Accessories:		Range of application: -30...+70 °C · under non-icing conditions																								
Options:		(1642 U66) Cable 10 m · 12-pole bayonet plug · ready-made																								
		Indicator unit e. g. (14742) METEO-LCD · Data logger e. g. (95665) SYNMET-LOG																								
		Mast and power supply unit · (9339) Visualization software "SSDL"																								
		(9337) Visualization and evaluation software "MeteoWare-CS-SSDL"																								