

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 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 |
|--------------------------------|--|
| 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: 14.11.2023