

## 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<br>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              | EOL05-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                                                                                                  |

As of: 11.06.2019