

# Датчики ветра PROFESSIONAL-IX 3.0 Modbus

## Технические характеристики

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# PROFESSIONAL-IX 3.0 Modbus Wind Direction Sensor

## APPLICATIONS

- Polar stations
- Wind turbines
- Cableways
- Winter sports facilities
- Wind warning systems
- Airports

## DESIGNED FOR COLD ENVIRONMENTS

These wind sensors for use in cold climates are robustly designed to withstand extreme conditions. With their extended application range and non-contact measuring principle, they provide precise wind measurements in real time. Their optimized heating concept makes them ideal for reliable operation at very low temperatures. Thanks to the Modbus protocol, the sensors can be seamlessly integrated into various systems, simplifying data acquisition and analysis.

- Wide measuring and temperature operating ranges for year-round use
- Very good starting values due to contactless measuring principle
- Optimized heating concept for cold climate
- Extremely high robustness and longevity

## Data sheet

| Professional Line               | PROFESSIONAL-IX 3.0 Modbus                                                                        |
|---------------------------------|---------------------------------------------------------------------------------------------------|
| Id-No.:                         | 00.14601.300003                                                                                   |
| Parameter:                      | Wind direction in °                                                                               |
| Measuring range:                | 0...360°                                                                                          |
| Accuracy:                       | ± 1°                                                                                              |
| Resolution:                     | < 1°                                                                                              |
| Starting value:                 | 0.4 m/s                                                                                           |
| Protocols:                      | Modbus RTU                                                                                        |
| Interface:                      | RS485                                                                                             |
| Range of application:           | Temperature: -40...+70 °C heated; wind speed: 0...60 m/s; humidity: 0...100 % r. h.               |
| Supply voltage:                 | Sensor 24 (20...28) VDC, 312 mW; heating 24 VDC, 125 W                                            |
| Current consumption:            | Max. 13 mA at 24 VDC                                                                              |
| Measuring elements:             | Wind vane, dimensionally stable; specially coated Aluminum                                        |
| Measuring principle:            | Contact-free; Hall Sensor Array                                                                   |
| Heating data:                   | 125 W heating; electronically controlled                                                          |
| Dimensions:                     | Wind vane: L 195 mm; H 295 mm                                                                     |
| Housing:                        | Seawater-resistant Aluminum with special coating; IP 65 in vertical operating position            |
| Weight:                         | 0.8 kg                                                                                            |
| Accessories (order separately): | ID 32.14601.060000 15 m cable, one-sided with plug<br>ID 32.14567.010000 Set wind traverse 750 mm |



# PROFESSIONAL-IX 3.0 Modbus Wind Speed Sensor

## APPLICATIONS

- Polar stations
- Wind turbines
- Cableways
- Winter sports facilities
- Wind warning systems
- Airports

## RELIABLE WIND MEASUREMENT IN ICY COLD

These wind sensors for use in cold climates are robustly designed to withstand extreme conditions. With their extended application range and non-contact measuring principle, they provide precise wind measurements in real time. Their optimized heating concept makes them ideal for reliable operation at very low temperatures. Thanks to the Modbus protocol, the sensors can be seamlessly integrated into various systems, simplifying data acquisition and analysis.

- Wide measuring and temperature operating ranges for year-round use
- Very good starting values due to contactless measuring principle
- Optimized heating concept for cold climate
- Extremely high robustness and longevity

### Data sheet

| Professional Line               | PROFESSIONAL-IX 3.0 Modbus                                                                        |
|---------------------------------|---------------------------------------------------------------------------------------------------|
| Id-No.:                         | 00.14602.300003                                                                                   |
| Parameter:                      | Wind speed in m/s                                                                                 |
| Measuring range:                | 0.4...50 m/s                                                                                      |
| Accuracy:                       | ± 2 % FS at 0.4...50 m/s                                                                          |
| Resolution:                     | < 0.1 m/s                                                                                         |
| Starting value:                 | 0.4 m/s                                                                                           |
| Protocols:                      | Modbus RTU                                                                                        |
| Interface:                      | RS485                                                                                             |
| Range of application:           | Temperature: -40...+70 °C heated; wind speed: 0...60 m/s; humidity: 0...100 % r. h.               |
| Supply voltage:                 | Sensor 24 (20...28) VDC, 312 mW; heating 24 VDC, 125 W                                            |
| Current consumption:            | Max. 13 mA at 24 VDC                                                                              |
| Measuring elements:             | Three-armed cup rotor; specially coated Aluminum                                                  |
| Measuring principle:            | Contact-free; Hall Sensor Array                                                                   |
| Heating data:                   | 125 W heating; electronically controlled                                                          |
| Dimensions:                     | Cup rotor: Ø 218 mm; H 241 mm                                                                     |
| Housing:                        | Seawater-resistant Aluminum with special coating; IP 65 in vertical operating position            |
| Weight:                         | 0.8 kg                                                                                            |
| Accessories (order separately): | ID 32.14601.060000 15 m cable, one-sided with plug<br>ID 32.14567.010000 Set wind traverse 750 mm |

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