PRODUCT OVERVIEW

Wind sensors for wind energy

Yield Optimization

High-precision measurement data from Lambrecht sensors provides the basis for informed decisions in project planning and the targeted optimization of existing wind turbines. This enables you to sustainably increase efficiency and yield.

u[sonic]WS6:
For six weather parameters

Maximum performance for wind turbines

PRECISE REAL-TIME DATA FOR HIGHER YIELD AND RELIABLE OPERATIONS

Sensors from LAMBRECHT meteo, a brand of AEM, deliver reliable measurement data for efficient turbine operation. Whether offshore, in coastal areas or under extreme conditions, you always maintain full visibility of your wind farm.

KEY BENEFITS AT A GLANCE

- Higher yield through precise measurement data
- Reliable operation in extreme conditions
- Durable and robust sensor technology
- Easy integration and installation

Reliable weather data.
Industry-leading hardware.

Our wind and weather sensors are designed for maximum durability and minimal maintenance. Proven long term stability ensures reliable operation and predictable performance, even under extreme conditions.

Specifications

All-in-One:	Weather sensor u[sonic]WS6
Measuring range	Wind direction: 0...360°; wind speed: 0...65 m/s
Operating conditions	-40...+70 °C (with heating -50...+70 °C); 0...100 % RH
Accuracy	Wind direction: < 2° (> 1 m/s) RMSE Wind speed: 0.2 m/s RMSE (v < 10 m/s); 2 % RMSE (10 m/s <v < 65 m/s) Air temperature: 0.1 K (0...60 °C); 0.2 K (-40...0 °C) Relative humidity: typically 1.5 % (0...80 %) RH; 2 % (> 80 %) RH Air pressure: 0.5 mbar
Output	NMEA 0183; SDI-12; Modbus RTU

Ultrasound:	Wind sensor u[sonic]
Measuring range	Wind direction: 0...360°; wind speed: 0...75 m/s
Operating conditions	-40...+70 °C (with heating -50...+70 °C); 0...100 % RH.
Accuracy	Wind direction: < 2° (> 1 m/s) RMSE Wind speed: 0.2 m/s RMSE (v < 10 m/s); 2 % RMSE (10 m/s < v < 65 m/s)
Output	0...20 mA; 4...20 mA; 0...5 V; 0...10 V; NMEA 0183; SDI-12; Modbus RTU

Cold Climate:	Wind sensor PROFESSIONAL-IX 3.0
Measuring range	0...360°; 0.4...50 m/s
Operating conditions	-40...+70 °C (heated); 0...60 m/s; 0...100 % RH
Accuracy	Wind direction: 1° Wind speed: 2 % FS at 0.4...50 m/s
Output	0...20 mA; 4...20 mA; Modbus RTU

The classic:	Wind sensor PRO-WEA
Measuring range	0...360°; 0.5...75 m/s
Operating conditions	-40...+70 °C (heated); max. gusts 100 m/s; 0...100 % RH
Accuracy	Wind direction: 2° Wind speed: 0.3 m/s ≤ 10 m/s; 0.5 m/s...60 m/s
Output	4...20 mA; Modbus RTU

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The sensors

u[sonic]WS6

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PROFESSIONAL IX 3.0

PRO-WEA

WHY AEM?

LAMBRECHT meteo, a brand of AEM, stands for high-quality meteorological sensors and measurement solutions. Our focus is on precise, state-of-the-art sensors and user-friendly complete systems, including data acquisition, maintenance, and service.

As a globally established brand, we, together with the AEM portfolio, provide flexible and reliable solutions for a wide range of meteorological applications.

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