



WIND SPEED AND WIND SENSOR

MODEL NO: HS-WS009



PRODUCT OVERVIEW

The HS-WS009 is a highly integrated sensor combining wind speed measurements in one robust device. Its durable aluminum alloy structure ensures high strength and reliable operation in various environments.

Wind Speed: Traditional three-cup anemometer design, made with imported ABS for excellent startup performance and durability.

DESCRIPTION

In line with IEC 61724-1:2021, which specifies performance monitoring for photovoltaic systems, accurate wind speed data are essential for calculating soiling losses, thermal losses, and derating factors caused by wind conditions.

The HS-WS009 offers a measurement range of up to 75 m/s, enabling reliable performance in both typical and extreme weather scenarios, supporting long-term yield analysis for solar power plants.

Its high linearity, low power consumption (maximum 0.9 W), and robust signal integrity ensure dependable operation.

KEY ADVANTAGES

- High accuracy, wide measurement range, and low start threshold.
- Industry-standard outputs available as option (pulse, 4–20 mA, voltage).
- Supports IEC 61724-1 PV performance monitoring needs.
- Robust, weatherproof construction with corrosion-resistant materials.
- Low power consumption for continuous remote monitoring.



Safety Instructions

The installation and assembly of electrical equipment must be carried out by electrically qualified persons. The sensor may not be used with equipment whose direct or indirect purpose is to prevent human death or injury, or whose operation poses a risk to humans, animals or property.



Electrical Connection

The sensors are designed for safety extra-low voltage (SELV) operation. The cable shield shall be connected to the PE during installation.

WARNING: Connecting the supply voltage to the signal lines will damage the device.



APPLICATIONS

Meteorology, environmental monitoring, Airports, ports, industrial automation, agriculture, transportation, and research.

Specifications	Wind Speed	Wind Gust
Range	0 - 75m/s	0.1 - 150 m/s
Measurement	0.5 m/s for ≤ 5 m/s 10% for $> 5 \leq 0.3$ m/s	10 %
OutPut Time	2 and/or 10 min	-
Sensor Time	-	3 s
Starting Threshold	2.5m, PUR coated, Shielded	-
Cable length	IP65	-
Power Consumption	< 0.9 Watt	-
Resolution	0.5 m/s	0.1 m/s
Weight	Approx. 700 g	-
Material	Aluminum Alloy & Carbon Fiber	-
Operating Temperature	-40° to 70°C	-
Power Supply	9 to 30 V DC	-
Signal Output	RS485	-
Certification	NABL certification and CE compliance	



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