



Wind Speed and Direction Ultrasonic Sensor

MODEL NO: HS-UAN009



PRODUCT OVERVIEW

The HS-UAN009 Ultrasonic Wind Speed and Direction Sensor is a compact, maintenance-free device designed for accurate measurement of wind parameters critical for solar PV plant monitoring and meteorological applications. Engineered with no moving parts, the sensor ensures reliable, long-term operation without mechanical wear, making it ideal for harsh outdoor environments.

Its robust ASA housing, IP65-rated protection, and wide operating temperature range of -40°C to +80°C enable consistent performance under extreme weather conditions.

KEY FEATURES

- **Data Ultrasonic Measurement Technology:** No moving parts, zero maintenance, high durability.
- **Wide Measuring Range:** Wind Speed: 0–75 m/s, Wind Direction: 0°–360°.
- **High Accuracy:** Wind Speed $\pm 1\%$, Wind Direction $\pm 1^\circ$.
- **Environmental Resistance:** IP66-rated ASA body resists UV, salt fog, and corrosion.
- **Compliance:** Meets IEC 61724-1 performance monitoring standards for PV systems.



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.

Specifications	Parameters
Power Supply	5 to 30 V DC
Signal Output	RS 485
Range	Wind Speed: 0 - 75 m/s Wind Direction: 0° - 360°
Accuracy	Wind Speed: $\pm 1\%$ Wind Direction: $\pm 1^\circ$
Resolution	Wind Speed: 0.01 m/s Wind Direction: 1°



Operating Temperature	-40° to +80°C @ 0-100% RH
Threshold Value	0.2 m/s
Cable length	4 m
Power Consumption	< 0.3 Watt
Product Dimensions	Ø110mm × 140mm
Weight	Approx. 200 g
Measurement Technology	Ultrasonic
Sensor Housing	IP66-rated ASA



Email: sales@heydayventures.co.in



Website: www.heyday-ventures.com



Works: Heyday Ventures Part B, Back Side, ground floor,
plot no-4, KH-132, Neb Sarai, New Delhi - 110068, India



Phone: +91 11 6926 1931

