

DATA SHEET: WS-30R Air Velocity Sensor

High-Stability Sensor for Low to Medium Velocity Airflow Monitoring

1. PRODUCT OVERVIEW

The **WS-30R** is a specialized air velocity sensor designed for high-accuracy measurement in environments requiring moisture and pollution resistance. Engineered for long-term stability and precision, it effectively monitors low to medium air velocities. Its robust design and excellent cost-performance ratio make it an ideal choice for environmental monitoring and HVAC system integration.

2. KEY FEATURES

- High Sensitivity:** Accurate measurement of low to medium air velocities with exceptional stability.
- Environmental Resistance:** Specifically designed with anti-vibration, anti-pollution, and anti-humidity capabilities.
- Standardized Communication:** Supports Modbus-TCP and Modbus-RTU protocols, as well as 4-20mA or 0-5V analog outputs for flexible system integration.
- Durable Construction:** Features a high-quality PVC probe rod for reliable performance in diverse working conditions.
- Optimized Design:** Compact form factor combined with a high cost-performance ratio for broad industrial application.

3. TECHNICAL SPECIFICATIONS

| Feature | Specification |
|-----------------------|---|
| Model | WS-30R |
| Measurement Range | 0 - 1 m/s, 1 - 20 m/s |
| Accuracy | ± 0.1 m/s |
| Response Time | < 3 s |
| Communication Modes | Modbus-TCP / Modbus-RTU / 4-20mA / 0-5V |
| Power Supply | DC 9 - 24V |
| Probe Material | PVC Plastic |
| Operating Environment | Temp: 0 ~ 50°C / Humidity: < 85% RH |
| Dimensions (LWH) | 135 × 37 × 91 mm |
| Weight | 0.23 kg |

4. APPLICATIONS

- **HVAC Systems:** Monitoring and controlling air velocity in ventilation ducts.
 - **Environmental Protection:** Assessing air quality and flow in industrial settings.
 - **Cleanroom Management:** Validating air velocity stability in controlled environments.
 - **Building Automation:** Integration into BMS for efficient airflow regulation.
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5. STANDARD ACCESSORIES

- WS-30R Air Velocity Sensor
 - Communication Connector
 - **Factory Calibration Report**
 - User Manual
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Manufactured by:

Honri Airclean Technology (Suzhou) Co., Ltd.