

DATA SHEET: CLJ-R200 Remote Airborne Particle Sensor

Compact Remote Sensor for 24/7 Environmental Monitoring

1. PRODUCT OVERVIEW

The **CLJ-R200** is an online particle sensor designed for the continuous oversight of air cleanliness in critical environments. By providing real-time data via RS485 Modbus, it enables facilities to maintain strict GMP compliance and respond immediately to contamination events. Its compact design and stainless steel construction make it ideal for seamless integration into larger Facility Monitoring Systems (FMS).

2. KEY FEATURES

- Real-time Monitoring:** Tracks multiple particle sizes simultaneously from 0.3 μm to 5.0 μm .
- Industry Standard Output:** RS485 (MODBUS) communication for simple and reliable system integration.
- Rugged SS304 Casing:** Corrosion-resistant stainless steel housing, easy to decontaminate for cleanroom use.
- External Vacuum Supply:** Designed to be powered by a centralized vacuum system for continuous operation.
- High Precision:** Precision-engineered laser diode ensures consistent and accurate data collection.
- Compact & Lightweight:** Small footprint (0.2-0.3 kg) allows for versatile mounting in restricted spaces.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Nominal Flow Rate	2.83 LPM (0.1 CFM)
Particle Channels	0.3, 0.5, 1.0, 2.0, 3.0, 5.0 μm
Communication	RS485 (MODBUS)
Vacuum Requirement	External Pump
Power Input	12V - 24V DC
Enclosure Material	SS304 Stainless Steel
Dimensions / Weight	Compact Design / 0.2 - 0.3 kg
Repeatability	$\leq 10\%$

4. APPLICATIONS & COMPLIANCE

- **Pharmaceutical:** Continuous monitoring for GMP Grade A/B/C environments.
 - **Microelectronics:** In-tool monitoring and mini-environment contamination tracking.
 - **Healthcare:** Ensuring safety in pharmacy compounding and operating rooms.
 - **Standards Compliance:** Complies with ISO 14644-1 and global GMP requirements.
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5. STANDARD ACCESSORIES

- SS304 Remote Sensor Unit
 - RS485 Communication Connector
 - **Factory Calibration Report**
 - User Installation Guide
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Manufactured by:

Honri Airclean Technology (Suzhou) Co., Ltd.