

CI-3100 RS Series Remote Sensor Airborne Particle Counters Up To 1 CFM Flow Rate When Accuracy Matters!™



For Continuous Monitoring and
Systems Integration

High Accuracy & Assurance

Stainless Steel Enclosure

VHP Compatible

Easy To Install, Operate and
Validate

Remotely Controlled and
Monitored

Internal Flow Rate Sensor

Multiple Status Indicators

Connects to existing network
infrastructure and a variety of
data logging or standard
environmental monitoring
systems including LIMS
Software.

ISO 21501-4

ISO 14644-1

EU GMP, Annex 1

FS-209E

JIS 9921



Unsurpassed ease of use and reliability. The **CI-3100 RS Series** is designed for continuous monitoring, and offers users a choice of standard data interface options including RS-485 Modbus and 4-20 mA outputs.

Reliability, Accuracy & Support

The **CI-3100 Series** of particle counters are engineered and manufactured with only the highest quality materials. This ensures a long product life-cycle, and up to decades of reliable use. Moreover, we provide calibration support services for all our instruments over their lifetime. We have built our reputation by providing highly accurate instruments that stand the test of time. Climet internal audits confirm that units returned for calibration have an “In Tolerance” rate of more than 98%. This study includes some units that have been manufactured more than 20 years ago. Simply, Climet particle counters are designed, tested, and calibrated with very tight tolerances to exceed industry standards. Years of count efficiency testing has demonstrated that a properly calibrated Climet particle counter produces good count efficiency even after more than a decade of field operation!

Return On Investment

Not all particle counters are equal. The initial purchase price, cost of calibrations, cost of consumables, out of warranty repairs, and product life-cycle all factor into calculating the Return on Investment. Other intrinsic factors include assurance, reliability, accuracy, application support, and superior customer service. These make Climet the unsurpassed leader in the manufacture of particle counters for cleanroom monitoring, validation, and certification.

Custom Engineered Solutions

If you have a specific technical requirement, please contact us. We specialize in customizing our products to fit your needs.

Applications Include:

Cleanroom Monitoring & Validation
Medical Device Manufacturing
Pharmaceutical Manufacturing
Hospitals

Food & Beverage Processing
Aerospace Assembly
Pharmaceutical Compounding
Cosmetic Manufacturing

CLIMET®
INSTRUMENTS COMPANY

CI-3100 RS Series Specifications

Performance	<p>Flow Rate Control: Critical orifice.</p> <p>External Vacuum: 15" Hg minimum.</p> <p>Particle Channel Sizes: 0.3, 0.5, or 5.0 microns on 2-channels (please contact us for other size requirements).</p> <p>Concentration Limit:</p> <p>1.0 CFM: 1.0 x 10⁶ particles per cubic foot (35.3 x 10⁶ particles per cubic meter) (10% coincidence).</p> <p>0.1 CFM: 10.0 x 10⁶ particles per cubic foot (353 x 10⁶ particles per cubic meter) (10% coincidence).</p> <p>Resolution: Exceeds requirements of ISO 21501-4 of 15% (4-10% typical).</p> <p>Count Efficiency: 50% Count Efficiency exceeds ISO 21501-4 of ±20% (≤±10% typical).</p> <p>100% Count Efficiency @ ±10% per ISO 21501-4</p> <p>Max. False Count: 1.00 CFM: 7.1 / CM (95% UCL) per ISO 21501-4</p> <p>0.10 CFM: 71 / CM (95% UCL) per ISO 21501-4</p> <p>Optics: Rhodium plated metal ellipsoidal mirror (extreme durability and resistant to degradation)</p> <p>Laser Diode: Optimal balance of long life, stability, and resolution for added accuracy.</p> <p>Cleaning: Compatible with common cleaning and sterilization procedures, including VHP.</p> <p>Electrical: Power and signal through DIN connector.</p>
Accessories Included	IQ/OQ Procedures and manual
Other Accessories Available	Mounting brackets, stainless steel isokinetic probes, light blocking isokinetic probes, tubing, probe stands, validation documentation, customized cabling, zero count filters, and other accessories sold separately.
LED Status Indicators	Power, Count, Laser Status, and Flow Status (Alarm LED only on 4-20 mA models)
Environmental	<p>Operating temperature: 0-36° C, 32-97° F Dimensions: 4.75" (W) x 4"(H) x 2"(D) (12.1 cm x 10.2 cm x 5.1 cm)</p> <p>0-90% relative humidity, non-condensing 4.5" (W) on RS-485 version (11.4 cm)</p>
Compliance	ISO 21501-4; ISO 14644-1; EU GMP, Annex 1; FS-209E; JIS 9921; and FDA 21 CFR Part 11 with software

CI-3100 - _____ - 1 - _____ - _____
Data Comm
Size Sensitivity
Flow Rate

DATA COMMUNICATION OPTIONS

- 3* = 4-20 mA with Flow Status, open collector output, no analog flow output**
- 4 = 4-20 mA with Flow Status, analog flow voltage output, no open collector output
- 6* = RS-485 Modbus with Flow Status**

SIZE SENSITIVITY OPTIONS

- 5* = 0.5 / 5.0 µm**
- 6 = 0.3 / 0.5 µm

FLOW RATE OPTIONS

- 6 = 0.10 CFM
- 8* = 1.00 CFM**
- 9 = 0.01 CFM

- * = most popular versions.**

• Recommended calibration frequency, every 12 months with monodisperse polystyrene spheres traceable to NIST.

We value the opportunity to work with you. For further technical information and questions, please contact us.

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