

CI-3100 OPT Series Remote Particle Counters Internal Vacuum Pump 1 CFM Continuous Monitoring When Accuracy Matters! TM



For Continuous Monitoring and
Systems Integration

High Accuracy & Assurance

Stainless Steel Enclosure

VHP Compatible

HEPA Filtered Exhaust On
Most Models

Easy To Install, Operate and
Validate

Automatic Flow Control

Remotely Controlled and
Monitored

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

21 CFR Part 11



Unsurpassed ease of use and reliability. The **CI-3100 OPT Series** is designed for continuous monitoring, and offers users a choice of standard data interface options including Ethernet 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 a decade or more 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 interval calibrations have an 'In Tolerance' rate of more than 98%. When the instrument is 10-years old or less, the 'In-Tolerance' rate increases to 99.5%. 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, product life-cycle, and failure investigations from interval calibration out-of-tolerance conditions 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



Revision 2.1 (Mar 2021)

CI-3100 OPT Series Specifications



Performance	The CI-3100 OPT has a stainless steel enclosure. Flow Rate Control: Internal vacuum pump with internal mass flow meter to automatically adjust flow rate ensuring instrument remains in calibration. Exhaust HEPA Filtered exhaust Communications Your choice of 4-20mA, Ethernet, RS-485, or Device Net Particle Channel Sizes: 0.3, 0.5, or 5.0 microns on 2-channels (please contact us for other size requirements) Concentration Limit: 0.1 CFM: 10.0 x 10⁶ particles per cubic foot (353 x 10⁶ particles per cubic meter) @ 10% coincidence 1.0 CFM: 1.0 x 10⁶ particles per cubic foot (35.3 x 10⁶ particles per cubic meter) @ 10% coincidence Software Easily integrate sample data into 3rd Party LIMS software solutions without middleware For Ethernet connectivity, Climet DataPro 3 Data Acquisition System (DAS) software is available ISO 21501-4 Calibration: Resolution: Exceeds requirements of ISO 21501-4 of 15% (4-10% typical) Count Efficiency: 50% Count Efficiency exceeds ISO 21501-4 of ±20% (≤±10% typical) 100% Count Efficiency @ ±10% per ISO 21501-4 Max. False Count: 1.00 CFM: 7.1 / CM (95% UCL) per ISO 21501-4 0.10 CFM: 71 / CM (95% UCL) per ISO 21501-4 Optics: Rhodium plated metal ellipsoidal mirror (extreme durability and resistant to contamination) Laser Diode: Optimal balance of long life, stability and resolution for added accuracy. Cleaning: Compatible with common cleaning and sterilization procedures, including VHP
Accessories Included	Zero count filter, IQ/OQ Docs, manual, and external exhaust fitting (on select models)
Other Accessories Available	Stainless steel isokinetic probes, tubing, probe stands, high pressure diffusers, software, validation documentation, customized cabling, and other accessories sold separately.
LED Status Indicators	Power, Alarm, Count, Laser Status, and Flow Status
Environmental	Operating temperature: 0-36° C, 32-97° F Dimensions: 6" (W) x 4" (H) x 11.5" (D) (15.24 cm x 10.16 cm x 29.21 cm) 0-90% relative humidity, non-condensing
Compliance	ISO 21501-4; ISO 14644-1; EU GMP, Annex 1; FS-209E; JIS 9921; and FDA 21 CFR Part 11

Call or write to- Exclusive Sales & Service Partner- South Asia
MK TEKNOLOGY1 PRIVATE LIMITED info@teknology1.com +91 9810550075



The following is a list of CI-3100 OPT standard models. We specialize in custom engineered solutions. If you are looking for something not listed below, please [contact us](#).

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Standard Models Listed Below:

CI-3100-12044	CI-3100-14144	CI-3100-21146	CI-3100-22146
CI-3100-12046	CI-3100-14146	CI-3100-21246	CI-3100-22246
CI-3100-12144	CI-3100-14244	CI-3100-21346	CI-3100-22346
CI-3100-12146	CI-3100-14246	CI-3100-21446	
CI-3100-12244	CI-3100-14346		
CI-3100-12246			
CI-3100-12344			
CI-3100-12346			
CI-3100-12844			
CI-3100-12846			
CI-3100-12152			
CI-3100-12157			

Ethernet OPT- Highest selling Most Preferred

Part Number Legend

CI-3100 - _____ - _____ - _____ - _____ - **OPT**
Interface Voltage Size Sensitivity Flow Rate

INTERFACE OPTIONS

- 12* = 4-20 mA Signal Output Stainless Steel Case
- 14* = Device Net Interface
- 21* = Ethernet Modbus w/ Built-in Webpages Browser Viewable
- 22* = RS-485 Modbus

VOLTAGE OPTIONS

- 0 = External Power, 24 VDC
- 1 = 115 VAC USA
- 2 = 230 VAC EURO
- 3 = 230 VAC UK
- 4 = 24 VDC
- 8 = 230 VAC EURO, Remote power option and flow rate output

SIZE SENSITIVITY OPTIONS

- 4* = 0.5 / 5.0 µm
- 5 = 0.5 / 5.0 µm
- 6 = 0.3 / 0.5 µm

FLOW RATE OPTIONS

- 2 = 0.10 CFM
- 4* = 1.00 CFM
- 6* = 1.00 CFM with External Exhaust
- 7 = 0.10 CFM with External Exhaust

* = most popular versions

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