

CI-454

50 LPM

Portable Airborne Particle Counter with USB Port.

Meets or Exceeds
ISO 21501-4



CLiMET continues to improve upon our most popular particle counters:

- USB port for data transfer
- Powered RS-232 to attach and operate a barcode scanner

While maintaining our best of class features:

- Unsurpassed ease of use
- Filtered External Exhaust
- Seamless stainless steel enclosure, lightweight and small footprint
- 2 year warranty
- Long battery operation time
- Ethernet Modbus TCP/IP communications
- Built-in printer

Similar models are also available: CI-154 (1 CFM), CI-754 (75 LPM) and CI-1054 (100 LPM) flow rates.

CLiMET®

CLiMET INSTRUMENTS COMPANY

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Please Contact CLiMET To Arrange For A FREE
Demonstration And Product Information.

SPECIFICATIONS FOR



CI-454

Particle channel sizes:	Four sizes: 0.3, 0.5, 1.0, 5.0 micron - Consult factory for special size requirements
Size resolution:	Exceeds requirements of ISO 21501-4
Concentration limit:	20,000 particles per liter (20 x 10 ⁶ particles per cubic meter) (10% coincidence)
Sample flow rate:	50 liters per minute (0.05 cubic meter or 1.77 cubic feet per minute)
Flow rate control:	Electronic, automatic closed loop
Sample tube extension:	3/8" (9.525 mm) I.D., up to 20 ft. (6.1 meters) max. length
Max. False Count Rate:	4.0 per CM >0.3 µm (95% UCL) per ISO 21501-4 (1 count per five minutes)
Battery:	Replaceable 9.6 Volts, 12.6 Amp hour Nickel Metal Hydride Battery operation time: 4.5 to 5.5 hours continuous operation Time to charge battery: 3.5 to 4.0 hours (built-in charger)
Display:	TFT Color LCD, ¼ VGA touch screen
Printer:	Thermal Dot Matrix
Memory:	3,000 samples: Date, Time, 4 Particle Channels, Flow, ID, Sample Volume, transferable to PC via RS 232 serial port, Ethernet or USB jump drive.
Unit ID:	User selectable
User ID:	Up to 20 users, besides supervisor, with password
Security:	Four security levels with user authentication
Location ID:	Up to 100 per program; 16 characters long.
Program:	Up to 30 user-defined and named, containing IDs and settings.
Input/Output (RS-232):	ASCII command set, CSV data output with checksum
Input/Output (Ethernet)	10/100Base-T, half or full duplex (auto sensing), http web server, Ethernet Modbus® sever and TELNET server
Input/Output (USB)	Transfer of stored data memory to jump drive Transfer of user-defined programs to/from jump drive
Beep On Count:	0.3 µm and greater.
Audible alarm:	Built-in
Alarm output:	Dry contacts, normally open or closed via alarm connector. Connector also has +12VDC @ 250mA.
Alarm limits:	Programmable for all particle channels, and flow.
Dimensions:	H-W-D: 8.65 x 8.5 x 9.5 inches (21.97 X 21.6 X 24.1 cm)
Weight:	11.0 lb (4.99 Kg) without battery 14.25 lb (6.46 Kg) with battery
Power:	Auto switching: 100–240 VAC, 47/63 Hz, 90VA max
Operating range:	0–36° C, 10–90% RH, non-condensing
Calibration:	Factory prime calibration complying with ISO 21501-4 NIST traceable using CalPro 2.00 (or later) software program.
Calibration frequency:	Recommended every 12 months.
Gas compatibility:	Air, nitrogen; consult factory regarding other gases.



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