

# Remote sensor w/ internal vacuum source

CI-3100 21146 - Ethernet Modbus/TCP-IP

Dramatically simplifies installation and validation for remote particle counting sensors.



Remote particle counter with internal vacuum pump. Continuously counts particles from a fixed position. Measures the essential two channels - 0.5 and 5 microns at 1 cubic foot per minute. Rugged stainless steel enclosure and small footprint.

Easy to use and easy to set up:

- Utilizes standard RJ-45 connector
- Utilizes standard CAT 5e cabling
- Utilizes standard Universal AC power supply using a standard power cord
- Eliminates the need for dedicated power or signal cable
- Eliminates the need for an external Vacuum Pump
- Eliminates the need for vacuum tubing
- Significantly reduces the complexity of installation

Ethernet Modbus connects to data acquisition platform

- Connects easily to your current network infrastructure
- Built-in website with individual web address
- Choice of 3 web pages
- Operating data easily viewed by web browser
- Latch count or rolling count option
- Forced count feature simplifies validation

The new Ethernet Modbus Optical Particle Transducer ushers in a new era for Continuous Monitoring. CLiMET has successfully transferred the "ease of use" of our portable products to cleanroom monitoring.

Requires only power cord and CAT 5e patch cable to connect easily to your company Ethernet.

# CLiMET®

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

# CI-3100

## SPECIFICATIONS

### SIMPLIFIED:

- Installation
- Operation
- Connection
- Validation
- Communication
- 2 year Warranty

Optics: Elliptical Mirror (Patent # 5,467,189)

Size Sensitivity: 0.5 $\mu$ m and 5.0 $\mu$ m

Count Efficiency: 50%  $\pm$  10% at 0.5 $\mu$ m, 100%  $\pm$  10% at 0.8 $\mu$ m

Concentration Limit: 1.0 X 10<sup>6</sup> Particles/Ft<sup>3</sup> (35.3 X 10<sup>6</sup> Particles/M3)

Zero Count: 0 as per ASTM F-50

Calibration: Factory prime calibration with NIST traceable standards in accordance with ASTM F-328 and JIS 9921

Sample Flow Rate: 1.0 Cubic Feet per Minute

Flow Rate Control: Automatic Flow Control set at factory

Flow Rate Indicator: Mass Flow Cell with LED indicator

Display: LED Power, Alarm, Count, Flow Status and Laser Status

Network Interface: Ethernet 10/100Base-T (auto sensing), half or full duplex (auto-sensing), MODBUS on TCP/IP; HTTP capable

Sample Volume: 1 cubic foot or 1 cubic meter, nominal sample times are 60 seconds or 2118.88 seconds but may vary based on flow and laser status during the sample. Sample data updated once per sample volume continuously; rolling data updated 60 times per volume (nominally every second or 35.3 seconds)

Dimensions: 6" x 4" x 11.50" (15.24 x 10.16 x 29.21 cm)

Weight: 7.25 lbs (3.29 kg)

Power: 100 to 240 V~, 50/60 Hz, 30W Max

Operating Temperature: 32 - 100°F, 0 - 37.8°C

Storage Temperature: 32 - 155°F, 0 - 68.3°C

Humidity: 0 - 100%, non-condensing

Recommended Cable: Category 5e unshielded twisted pair patch cable

External Exhaust: Ships with hose fitting (standard)

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