

Vertex50

LIQUID PARTICLE COUNTER



OUR Vertex50 is the smallest 50 nanometer liquid particle counter on the market and incorporates a 3.5" TFT touch screen to simplify the user interface. Based on state-of-the-art technology and built by Lighthouse Worldwide Solutions, Vertex50 is backed by a two-year warranty and international support.

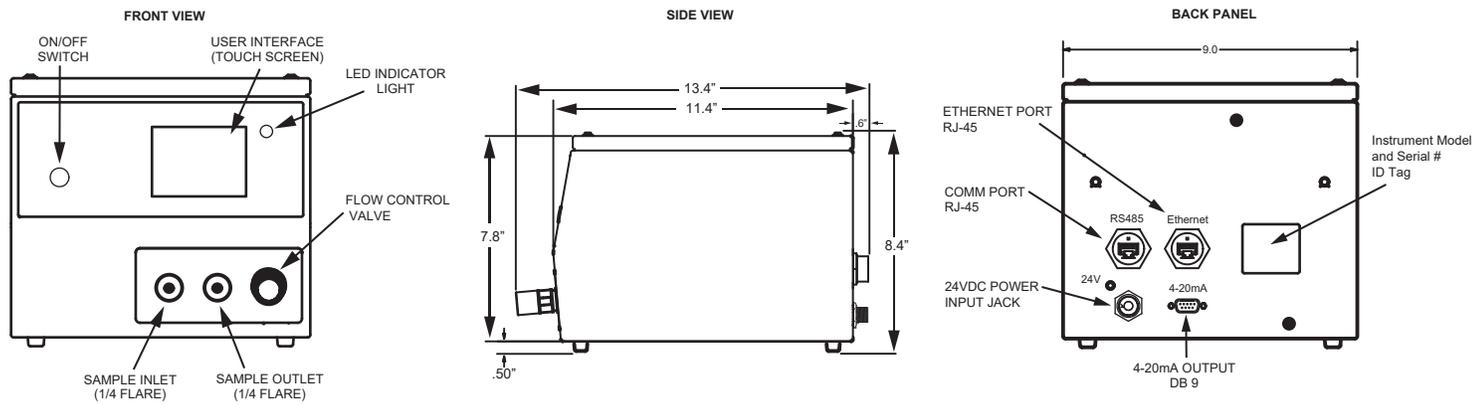
The Vertex50 industry standard RS-485 MODBUS and 4-20mA communication protocols provide seamless integration into facility monitoring systems or can be used as a stand-alone device.

Using its integrated ethernet TCP/IP interface allows the Vertex50 to connect to standard corporate ethernet LAN's as easily as it connects to facility monitoring systems.

FEATURES

- Channel sizes: 50nm, 100nm, 150nm, 200nm
- Four channels of simultaneous count data
- 100 mL per minute flow rate
- Built-in 3.5" color touch screen display
- 316L stainless steel construction
- Ethernet, RS485 Modbus Serial, 4-20mA
- NEMA style enclosure
- Integrated manual flow control
- Interfaces with existing building automation and facility management systems





TECHNICAL DATASHEET

Vertex50 Liquid Particle Counter

Features

| | |
|---|---|
| Size Range | 50 - 200 nm |
| Channels | 4 |
| Standard Channel Sizes | 50 nm, 100 nm, 150 nm, 200 nm |
| Flow Rate | 100 mL/min |
| Sample Volume | 5.0 mL/min |
| Zero Count Level | ≤ 20 count/L |
| Laser Source | Solid state laser |
| Calibration | NIST traceable |
| Communication Modes | Ethernet, Serial RS-485, 4-20mA |
| Display | TFT color touch screen |
| Concentration Limit | 10,000 counts/mL @ 10% coincidence loss |
| Enclosure | 316L stainless steel |
| Sample Inlet/Outlet Connection | 1/4" Flaretek™ |
| Environmental Conditions Operating | 50°F to 104°F (10°C to 40°C), 20% to 95% non-condensing |
| Environmental Conditions Storage | 14°F to 122°F (-10°C to 50°C), up to 98% non-condensing |
| Sample Temperature | 50°F to 122°F (10°C to 50°C) |
| Sample Pressure | 20 PSI to 72 PSI (138 kPa to 496 kPa) |
| Wetted Surface Materials | Quartz, PFA, Kalrez, PTFE |
| Communication Protocol | MODBUS TCP, MODBUS Serial, 4-20mA |
| Power | External Supply: Rated input 120-240V AC 50/60Hz, 0.7A - 1.4A. Rated Output: 24V DC, 5A |
| Dimensions | 9.0"(w) x 13.4"(d) x 8.4"(h) [22.9 x 34.0 x 21.3 cm] |
| Weight | 13.5 lbs (6.1 kg) |

Included

24V power adapter, power cord (US/UK/EU/CN), 1.8m USB-RS485 serial cable with industrial connector, 25' ethernet cable with industrial connector, USB flash drive with Operators Manual, 2 x 10 foot sample inlet and outlet tubes (with flared tips and lock nuts), flow cell cleaning kit, calibration certificate and carrying case.

Optional

Printed operating manual; additional tubing, additional serial or ethernet cables with industrial connector, flow cell cleaning kit.

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