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DATASHEET

Vertex liquid particle counters

Lighthouse

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Vertex50
LIQUID PARTICLE COUNTER

Vertex50 is the smallest and lightest 50nm liquid particle counter on the market.

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
- Leak detection sensor
- 316L stainless steel construction
- Ethernet, RS485 Modbus Serial, 4-20mA
- NEMA style enclosure
- Integrated manual flow control
- 2 year warranty



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LIGHTHOUSE WORLDWIDE SOLUTIONS

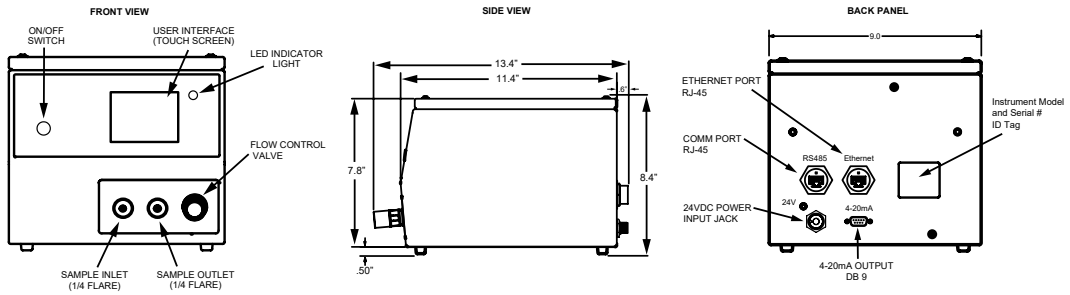
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DOCUMENT VERSION 2.0.1

Vertex50

LIQUID PARTICLE COUNTER



	Vertex50
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" FlaretekTM
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, PCTFE (Kel-F)
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)

Includes: 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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