

# Vertex100

## LIQUID PARTICLE COUNTER



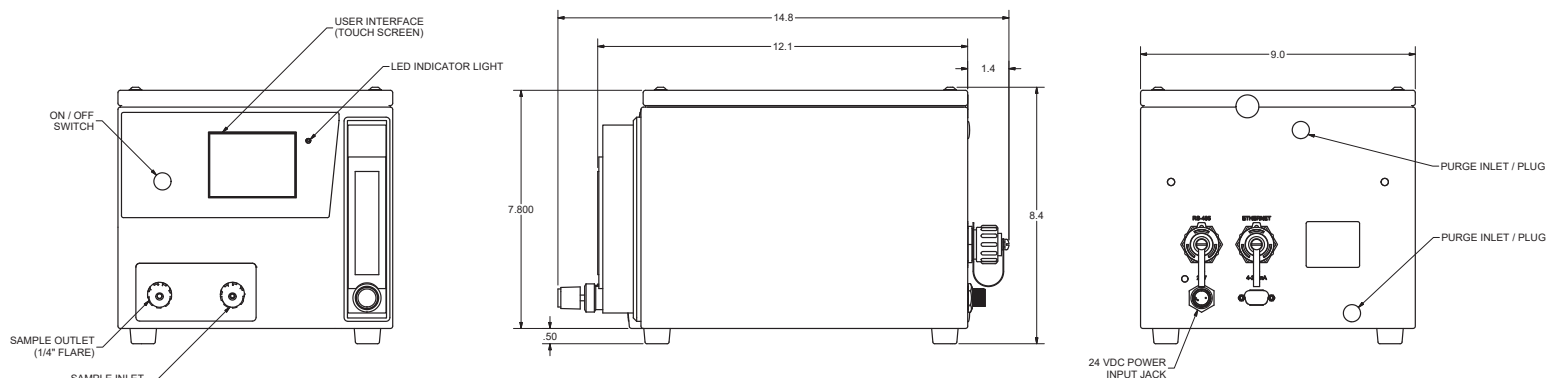
**T**he Vertex100 sets a new industry benchmark as the most compact liquid particle counter available, boasting an exceptional sensitivity level of 100 nanometers. It comes equipped with a user-friendly 3.5" TFT touch screen that streamlines operation, ensuring an intuitive user interface that simplifies system management.

Engineered with cutting-edge technology by the experts at Lighthouse Worldwide Solutions, the Vertex100 is not only a testament to innovation but is also fortified with a robust two-year warranty and extensive international support.

For integration that is both flexible and efficient, the Vertex100 supports the industry-standard RS-485 MODBUS and 4-20mA communication protocols,

### F E A T U R E S

- Channel sizes: 100nm, 200nm, 300nm, 500nm
- Two or 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 facility management systems
- 2 Year Warranty



## TECHNICAL DATASHEET

### Vertex100 Liquid Particle Counter

#### Features

<b>Size Range</b>	100 - 500 nm
<b>Channels</b>	2 or 4
<b>Standard Channel Sizes</b>	100 nm, 200 nm, 300 nm, 500 nm
<b>Flow Rate</b>	100 mL/min
<b>Sample Volume</b>	5.0 mL/min
<b>Zero Count Level</b>	≤ 20 count/L
<b>Laser Source</b>	Solid state laser
<b>Calibration</b>	NIST traceable
<b>Communication Modes</b>	Ethernet, Serial RS-485, 4-20mA
<b>Data Storage Records</b>	3,000 Records with a Rolling Buffer
<b>Display</b>	TFT color touch screen
<b>Concentration Limit</b>	10,000 counts/mL @ 10% coincidence loss
<b>Enclosure</b>	316L stainless steel
<b>Sample Inlet/Outlet Connection</b>	1/4" Flaretek™
<b>Environmental Conditions Operating</b>	50°F to 104°F (10°C to 40°C), 20% to 95% non-condensing
<b>Environmental Conditions Storage</b>	14°F to 122°F (-10°C to 50°C), up to 98% non-condensing
<b>Sample Temperature</b>	50°F to 122°F (10°C to 50°C)
<b>Sample Pressure</b>	7 PSI to 100 PSI (0.483 Bar to 6.895 kPa)
<b>Wetted Surface Materials</b>	Borosilicate glass, Kalrez, PFA, PTFE, PCTFE (Kel-F), quartz, and SS316
<b>Communication Protocol</b>	MODBUS TCP, MODBUS Serial, 4-20mA
<b>Power</b>	External Supply: Rated input 120-240V AC 50/60Hz, 0.7A - 1.4A. Rated Output: 24V DC, 5A
<b>Dimensions</b>	9.0"(w) x 13.4"(d) x 8.4"(h) [22.9 x 34.0 x 21.3 cm]
<b>Weight</b>	12.5 lbs (5.67 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.

#### Distributed By:

卫利精控科技（武汉）有限公司  
 电话: 4000186050  
 手机: +8613602188821  
 地址: 上海市闵行区浦江园区新骏环路588号25幢201室  
 E-mail: jennifer.zhang@winifred-hk.com  
 www.winifred-hk.com



Lighthouse Worldwide Solutions reserves the right to change specifications without notice.