

# NanoCount50+

## LIQUID PARTICLE COUNTER



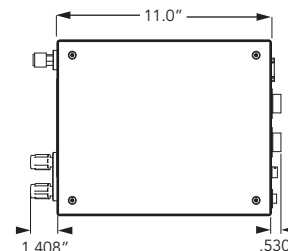
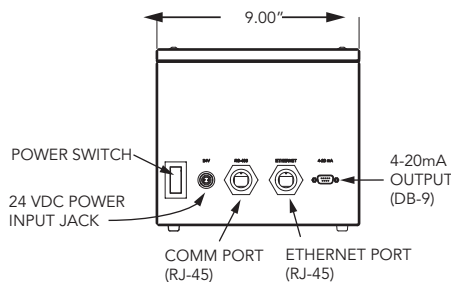
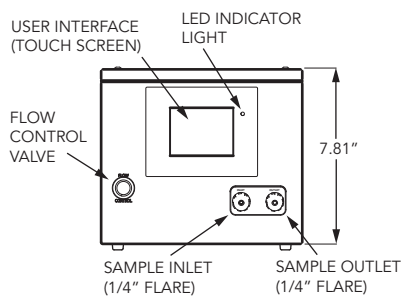
UR NanoCount 50+ is the smallest 50 nanometer liquid particle counter on the market and incorporates a 3.5" TFT touch screen to simplify the user interface. Based on state-of-the-art technology and built by Lighthouse, it is backed by a two-year warranty and international support.

The NanoCount 50+ provides industry standard RS-485 modbus and 4-20mA communication protocols so integration into facility monitoring system or use as a stand-alone device is quick and easy.

Using its integrated ethernet TCP/IP interface allows the NanoCount 50+ to connect to standard corporate ethernet LAN's as easily as it connects to facility monitoring systems.

### F E A T U R E S

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



## TECHNICAL DATASHEET

### NanoCount 50+ Liquid Particle Counter

#### Features

|   |   |
|---|---|
| <b>Size Range</b>                         | 50 - 200 nm   |
| <b>Channels</b>                           | 4   |
| <b>Standard Channel Sizes</b>             | 50 nm, 100 nm, 150 nm, 200 nm   |
| <b>Flow Rate</b>                          | 100 mL / minute   |
| <b>Sample Volume</b>                      | 5.0 ml/min.   |
| <b>Zero Count Level</b>                   | < 20 counts / liter   |
| <b>Laser Source</b>                       | Solid state laser   |
| <b>Calibration</b>                        | NIST traceable  |
| <b>Communication Modes</b>                | Ethernet Modbus TCP/IP, RS-232 via RJ-45 to PC, RS-485 Modbus         |
| <b>Display</b>                            | TFT color touch screen  |
| <b>Concentration Limit</b>                | 200,000 counts / ml @ 5% coincidence error                            |
| <b>Enclosure</b>                          | 304L stainless steel  |
| <b>Sample Inlet/Outlet Connection</b>     | 1/4" Flaretek™  |
| <b>Environmental Conditions Operating</b> | 50 to 104°F (10 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° to 194°F (10° to 90°C)  |
| <b>Sample Pressure</b>                    | 20 to 75 PSI  |
| <b>Wetted Surface Materials</b>           | Quartz, PFA, Kel-F, Kalrez, Ryton, Epoxy, Glass, Sapphire, and SS316L |
| <b>Communication Protocol</b>             | Ethernet, RS-485 Modbus, four 4-20mA analog outputs                   |
| <b>Power</b>                              | 100-240 VAC   |
| <b>Dimensions</b>                         | 9.0" (w) x 8.0" (h) x 11.0" (d) [22.86 x 20.32 x 27.94 cm]            |
| <b>Weight</b>                             | 11.8 lbs (5.35 kg)  |

#### Included

Operating manual on CD; connection tubing; flow cell cleaning solution and brush; carrying case; 2 ea. industrial RJ45 kit; 24 VDC power supply and power cord; communication cable.

#### Optional

Printed operating manual; additional tubing.

**Distributed By:**



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

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