

NanoCount50C/65C

LIQUID PARTICLE COUNTER



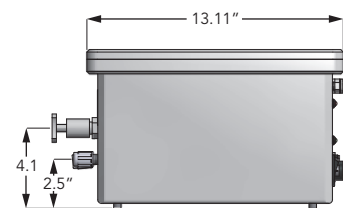
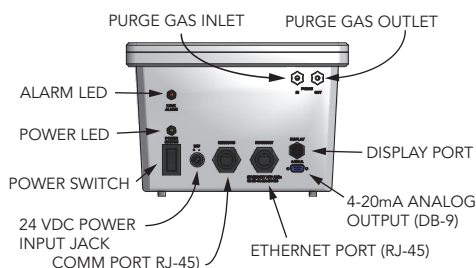
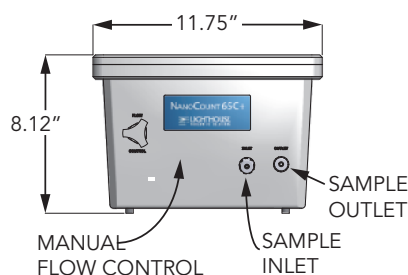
THE NanoCount 50C and 65C are two of the smallest 50nm and 65nm liquid particle counters on the market designed to monitor ultrapure process chemicals. Based on state-of-the-art technology and built by Lighthouse, NanoCount 50C and 65C are backed by a two-year warranty and international support.

The NanoCount 50C and 65C provide industry standard RS-485 modbus and 4-20mA communication protocols so integration into facility monitoring systems or use as a stand-alone device is quick and easy.

Incorporating the latest in laser optical particle counting technology and designed for reliability, the NanoCount 50C and 65C are intended for continuous trouble-free operation.

FEATURES

- 50C: channel sizes: 50nm, 100nm, 150nm, 200nm
- 65C: channel sizes: 65nm, 100nm, 150nm, 200nm
- Four channels of simultaneous count data.
- 100 ml per minute flow rate.
- Ultra-pure process chemical compatibility.
- RS-485/modbus, 4-20mA and ethernet interfaces.
- Sealed connections.
- NEMA style enclosure.
- Integrated manual flow control.
- Leak detection alarm.
- 2 year warranty.



TECHNICAL DATASHEET

NanoCount 50C and 65C Liquid Particle Counter

Features

Size Range	NanoCount 50C: 50 - 200 nm, NanoCount 65C: 60 - 200nm.
Standard 4 Channel Sizes	NanoCount 50C: 50, 100, 150, 200 nm, NanoCount 65C: 65, 100, 150, 200 nm.
Flow Rate	100 mL / minute.
Zero Count Level	< 20 counts / liter.
Laser Source	Laser Diode.
Data Storage	Rotating buffer, 2,000 records.
Calibration	NIST traceable.
Communication Modes	Industrial RJ45 for RS-485, Ethernet; Sealed DB9 for 4-20mA.
LED Indicators	Power, leak alarm.
Concentration Limit	200,000 counts / ml @ 5% coincidence error.
Enclosure	Polypropylene, white.
Sample Inlet/Outlet Connection	1/4" Flaretek™
Sample Temperature	50 - 140°F (10 - 60°C)
Sample Pressure	75 PSI max.
Wetted Surface Materials	Sapphire, PFA, Kel-F, Kalrez.
Communication Protocol	RS-485 Modbus, 4-20mA, Ethernet TCP.
Power	24 VDC.
Dimensions	11.75"(w) x 8.25"(h) x 13.5"(l) (29.8 x 20.95 x 34.29).
Weight	13.6 lbs (6.2 kg).

Environmental Conditions:

Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing.
Storage: 14°F to 122°F (-10°C to 50°C) / up to 98% non-condensing.

Included

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

Optional

Printed operating manual; Remote Display, Remote Display 10 foot extension cable; additional tubing; LMS Express, LMS Express RT software.

Acceptable Chemicals

Water
Deionized Water
Nitric Acid 70%
Sulphuric Acid 96%
Hydrochloric Acid 37%
Ammonium
Hydrogen Peroxide 30%
Phosphoric Acid 86%
Hydrofluoric Acid 50%
Hydrofluoric Acid 5%
Hydrofluoric Acid 0.5%
Tetramethylammonium Hydroxide
Potassium Hydroxide
N-methyl Perryiodine
Acetone
Isopropyl Alcohol

Symbol

H₂O
DI H₂O
HNO₃ 70%
H₂SO₄
HCL
NH₄OH
H₂O₂
H₃PO₄
HF 50%
HF 5%
HF 0.5%
TMAH
KOH
NMP
C₂H₂O
IPA

Unacceptable Chemicals

Nitric Acid
Ammonium Fluoride
Buffered Hydrofluoric Acid
Buffered Oxide Etch

Symbol

HNO₃
NH₄F
BHF
BOE

Distributed By:



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

www.golighthouse.com
info@golighthouse.com

1-800 945 5905 (Tollfree)
1-541 770 5905 (Outside of USA)



LIGHTHOUSE
WORLDWIDE SOLUTIONS