

NanoCount65C

LIQUID PARTICLE COUNTER



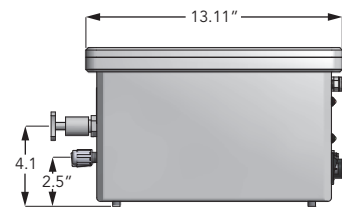
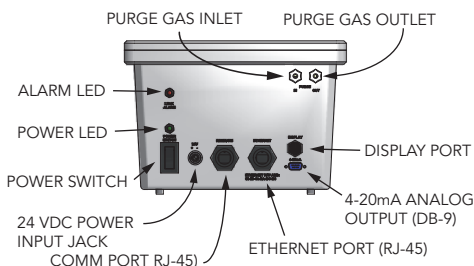
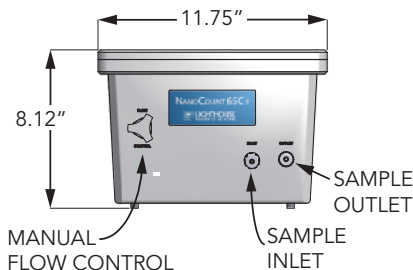
THE NanoCount 65C is one of the smallest 65nm liquid particle counters on the market designed to monitor ultrapure process chemicals. Based on state-of-the-art technology and built by Lighthouse, NanoCount 65C is backed by a two-year warranty and international support.

The NanoCount 65C provides 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 65C is intended for continuous trouble-free operation.

FEATURES

- 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 65C Liquid Particle Counter

Features

Size Range	60 - 200nm.
Standard 4 Channel Sizes	65, 100, 150, 200 nm.
Flow Rate	100 ml/min
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

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