



PARTICLE COUNTER PC2400

STANDARD FEATURES

- Detection range of 2-900 microns
- Sizing range of 2-100 microns
- Measures up to 8 size channels
- Flow cell condition readout (0-100%)
- External sensor with sapphire optics
- Supports multiple integration options

OPTIONAL FEATURES

- TracWare software
- Analog I/O Board
- Cell condition analog output
- Various communication protocols (Modbus RTU, Modbus TCP/IP, PROFIBUS DP, DDE & OPC Servers, and other communication protocols)

BENEFITS

- Detects particulates down to low ppt levels
- Provides particle size and quantity information
- Display shows particle count, particle size, and cell condition readout
- Large flow cell reduces plugging
- External sensor is easy to clean and keeps water separate from electronics

APPLICATIONS

Water Treatment

- Optimize filtration performance

Wastewater Treatment

- Particle size verification prior to UV

Reverse Osmosis Pretreatment

- Reduce RO membrane fouling
- Reduce SDI testing

Membrane Filtration

- Ensure membrane performance

Boiler/Condensate

- Monitor corrosion product transport

Parts Washing

Food & Beverage

Pharmaceutical

DESCRIPTION

The PC2400 Particle Counter combines simplicity of operation, advanced electronics, and powerful performance to set the standard for on-line particle counting in the water treatment industry. With a detection capability of 2 to 900 microns, the PC2400 is ideal for monitoring and optimizing your filter's performance. It's low parts per trillion detection capability ensures that when it comes to filter breakthrough, your plant operators have the earliest warning possible. And the 2 to 100 micron sizing capability allows for accurate determination of filter removal efficiency for any particle size in this range. The PC2400 is also an excellent tool for detecting process contaminants in liquids for a host of different applications.



Particle Detection

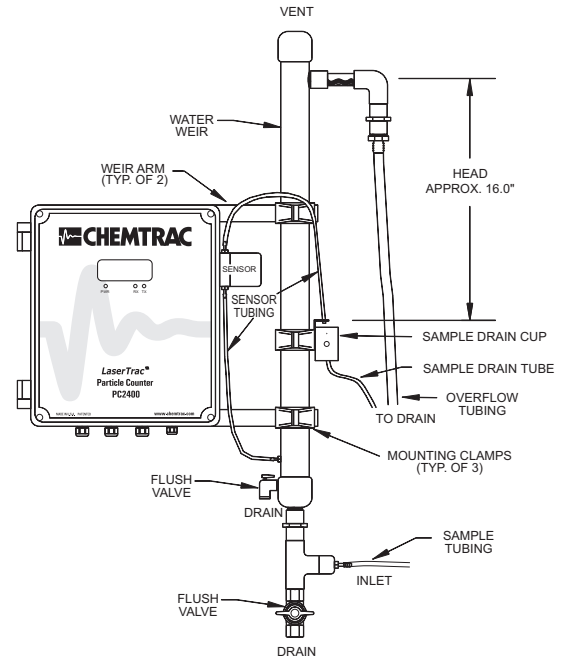
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GENERAL SPECIFICATIONS

Laser Type:	Solid-state laser diode (780 nm)
Flow Cell Dimensions:	1mm x 1mm
Cell Material:	Nituff Coated Aluminum PEEK Plastic (optional)
Viewing Windows:	Sapphire
Detection Range:	2-900 microns
Sizing Range:	2-100 microns
Flow Rate:	100 mL/min.
Resolution:	Better than 10% at 10 micron (ASTM-F658)
Coincidence:	<10% at 15,000 cnts/mL (2 micron)
Size Channels:	8, user-selectable
Laser Diode Life:	MTBF 75,000 hours @ 55° C
Measurement Type:	Volumetric, counts/mL
Local Display:	4 x 20 backlit LCD
Display Readout:	Address, size channel, counts, cell condition (0-100%), and power/communications LEDs
Serial Communications:	2 wire RS485 (Network) and RS232 (Local)
Communication Protocols:	Standard: Optomux & Modbus ASCII Optional: Modbus RTU, Modbus TCP (Ethernet), Profibus DP, and other communication protocols
Analog Inputs:	4 channels: 4-20 mA (optional)
Analog Outputs:	4 channels: 4-20 mA representing first four size ranges (optional) 1 analog output: 4-20 mA representing cell condition (optional)
Power Requirements:	100-240 VAC, 1A, 47 - 63 Hz
Operating Temperature:	32° - 130° F (0° - 55° C)
Dimensions:	14.25" W x 12.75" H x 5.5" D (362 mm W x 324 mm H x 140 mm D)
Weight:	12 lbs (5.4 kg)

PC2400 and Weir set-up



TracWare data trending software

