



PARTICLE COUNTER PC3400

STANDARD FEATURES

- Detection 2-900 microns, Sizing 2-100 microns
- Up to 8 user programmable size channels
- Reports total counts, cnts/mL, or cnts/100mL
- User friendly, menu driven calibration
- User keypad for complete system setup
- MODBUS RTU communication
- Sensor laser & cell condition readout (0-100%)
- External sensor with sapphire optics
- Datalogging and trending

OPTIONAL FEATURES

- TracWare (MB) software - record data
- Analog 4-20mA I/O and Alarm Relays
- Multiple communication protocols supported

BENEFITS

- Provides particle size and quantity information and detects particulate down to low ppt levels
- User friendly calibration routine makes calibrations fast, simple, and lowers maintenance cost because units don't need to go back to factory for routine calibration
- User keypad with extensive menu functions eliminates requirement to use external software for setup
- Large display shows all 8 particle size channels at once, plus other sensor performance info
- External sensor allows for easy cleaning and water is kept away from electronics

APPLICATIONS

Water Treatment

Wastewater Treatment

Reverse Osmosis Pretreatment

Membrane Filtration

Boiler/Condensate

Parts Washing

Food & Beverage

Pharmaceutical

DESCRIPTION

The PC3400 sets the newest standard in its class for online particle counting in the water treatment industry. The high performance ARM7 32-bit microprocessor runs advanced embedded applications which significantly reduce dependency on external software and allows the operator to perform all setup functions from the keypad. The PC3400 boasts a large graphical display which allows the user to see all the particle count information for all size ranges at one glance. The most powerful and cost saving feature is the PC3400's user friendly calibration. To calibrate the unit, simply access the calibration menu through the keypad, pass a solution of calibration standard through the sensor and the unit will automatically adjust the calibration threshold for accurate sizing. Complicated, proprietary software running on a computer is no longer needed to perform calibration! Never has particle counting been this easy.



Particle Detection

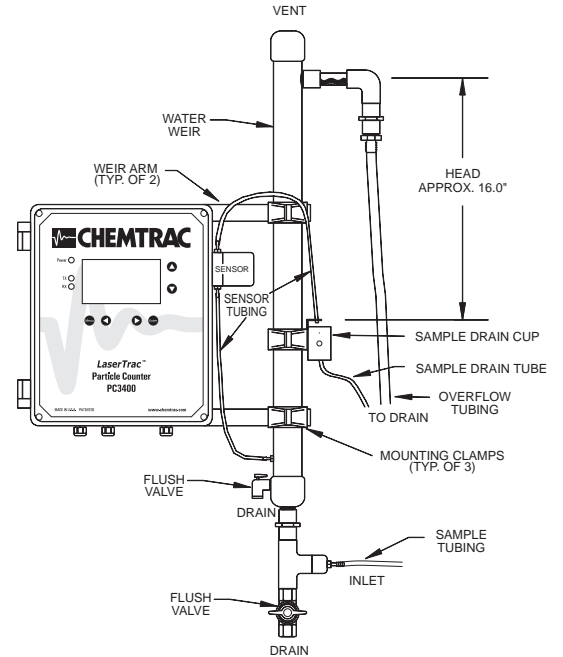
Chemtrac, Inc.
6991 Peachtree Industrial
Boulevard, Building 600
Norcross, GA 30092
USA

PH: 770.449.6233
US: 800.442.8722
FX: 770.447.0889
www.chemtrac.com

GENERAL SPECIFICATIONS

Laser Type:	Solid-state laser diode (780 nm)
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)
Signal to Noise Ratio:	Better than 5:1
Size Channels:	8 - user selectable and total counts
Alarms:	Sensor status, particle count limit
Laser Diode Life:	MTBF 75,000 hours @ 55° C
Measurement Type:	Light obscuration, Volumetric
Local Display:	Graphical, 8 size channels displayed at once, unit info/diagnostic screen, alarm screen, total count screen, graphical trending, user menus
Display Readout:	Size channel, counts, cell condition (0-100%), laser condition (0-100%), unit address, sample period, sample frequency, flow rate
Graphical Trending:	Total counts for last 64 logged values
Data Storage:	65,000 sample strings User defined logging interval (1 - 254 minutes)
Keypad Interface:	All instrument settings may be modified via the keypad interface, including instrument calibration (some settings require password)
Serial Communications:	2 wire RS485 (Network) and RS232 (Local)
Communication Protocols:	Standard: MODBUS RTU (RS485) Optional: multiple communication protocols supported (contact for details)
Analog Outputs:	4 or 8 channels, 4-20 mA (optional)
Analog Inputs:	2 or 4 channels, 4-20 mA (optional)
Alarm Relays:	2, 250V, 5 A (optional)

PC3400 and Weir set-up



PC3400 Display Screens

