

Advanced Test Equipment Corp.

Rentals • Sales • Calibration • Service



Without measurement there is no control ®

The Ultra DI® 50 Liquid Particle Counter is designed specifically for de-ionized (DI) water systems and will count and size contaminants as small as 0.05 µm. Larger sample volumes and ultra-low zero counts detect smaller excursions with more relevant statistical data, while shorter sample intervals speed up your analysis time.

Respond immediately to contamination with real-time measurement of particles, and move quickly from one sample point to another.

A low zero count, large sample volume and high counting efficiency provide you with unsurpassed performance.



BENEFITS

Rapid Analysis

- Quickly obtain meaningful statistical data with Ultra DI 50's large sample volume
- Save operator time with fast clean-up and the ability to move quickly from one sample point to another
- Speed up analysis time by using shorter sample intervals

Process Development

- Larger sample volumes and ultra-low zero counts detect smaller excursions with more relevant statistical data
- Respond immediately to contamination with real-time particle measurement
- Facility Net software provides more sophisticated process control with:
 - email notification
 - sensor status
 - tabular and SPC charts
 - time plots
 - historical event log records
- Set tighter process control limits with low sample-to-sample variation

Easy to Use

- Utilize existing network with Ethernet communication
- Connect directly to PLC and SCADA systems with 4-20 mA
- Compatible with ozonated water
- Stainless steel housing and dual HEPA filtration for use in clean environments

APPLICATIONS

- Quantifying particle concentration in ultra pure water (UPW) systems
- Filter efficiency measurements
- Trending analysis at lower particle concentrations
- Detecting bacterial growth in UPW systems
- Episodic event tracking and alarming
- Continuous system monitoring
- Manufacturing process control

Ultra DI® 50

Liquid Optical Particle Counter

Size range	0.05 – 0.20 μm
Channels	4
Channel sizes	0.05, 0.10, 0.15, 0.20 μm
Flow rate (ml/min)	1,000 ml/min ± 10%
Counting efficiency	100% sample volume
Sample volume	≥ 3.75 ml/min
Maximum concentration ¹	10,000 counts/ml
Sample temperature ²	59 – 122 °F (15 – 50 °C)
Maximum pressure	100 psi
Zero count	≤ 50 counts/L
Exterior surface	Stainless steel
Wetted surface materials	Teflon®, Delrin®, fused silica, sapphire, Viton®, 96% Alumina Ceramic, and Simriz®
Dimensions (d, w, h)	17 x 17 x 10.5 in (43 x 43 x 27 cm)
Weight	45 lb (20.4 kg)
Power	100 – 240 VAC
Communications	Ethernet, 4-20 mA (3 outputs: 2 particle channels, 1 instrument status) RS-232 (set up and diagnostics only, no data)
Status indicator	Laser, power, and activity: one (1) tri-color LED
Calibration	Materials used are traceable to National Institute of Standards and Technology (NIST) and/or Japanese Industrial Standards (JIS)
Environment	Temperature: 72 – 84 °F (22 – 29 °C) \pm 1 °C /hour Humidity, Non-Condensing

- Greater than 90% accuracy (less than 10% coincidence loss) at the maximum recommended concentration.
- For temperatures greater than 50°C, use of a chiller is recommended.

HEADQUARTERS

Boulder, Colorado 80301 USA T: +1 303 443 7100

Instrument Service & Support T: +1 303-443-7100 ext 447

Service and Calibration E: workorders@pmeasuring.com

Technical Support E: techsupport@pmeasuring.com

Software or System Support E: ssupport@pmeasuring.com

Customer Service and Order Processing E: customerorders@pmeasuring.com

www.pmeasuring.com info@pmeasuring.com

GLOBAL OFFICES

AUSTRIA

T: +43 171 728 285

E: pmsaustria@pmeasuring.com

BELGIUM/BENELUX

T: +32 10 23 71 56

E: pmsbelgium@pmeasuring.com

T: +55 11 5188 8227

E: pmsbrazil@pmeasuring.com

T: +86 400 081 8020

E: pmschina@pmeasuring.com

FRANCE

T: +33 682 991 798

E: pmsfrance@pmeasuring.com

GERMANY

T: +49 351 8896 3850

E: pmsgermany@pmeasuring.com

IRELAND

T: + 353 1 295 7373

E: Info.ie@pmeasuring.com

T: +39 06 9053 0130

E: pmssrl@pmeasuring.com

JAPAN

T: +81 44 589 3498

E: pmsjapan@pmeasuring.com

T: +82 31 286 5790

E: pmskorea@pmeasuring.com

NORDIC

T: +45 7070 2855

E: pmsnordic@pmeasuring.com

PUERTO RICO

SINGAPORE

T: +65 6496 0342

E: pmssingapore@pmeasuring.com

SWITZERLAND

T: +41 71 987 01 01

E: pmsswitzerland@pmeasuring.com

TAIWAN

T: 886-3-5525300 Ext: 301 E: pmstaiwan@pmeasuring.com

UNITED KINGDOM T: +44 (0)1223 257704

T: +1 787 718 9096 E: pmspuertorico@pmeasuring.com E: Info.uk@pmeasuring.com

For the most updated contacted information please visit https://www.pmeasuring.com/contact-us/







