ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Particle Measuring Systems CLS-700* at our website: *Click HERE*

CLS-700 T

Corrosive Liquid Particle Counter



The CLS-700 T corrosive liquid sampler is a compression sampler combined with a LiQuilaz® particle counter for effective measurement of particles in fluids contained in unpressurized vessels. It is ideally suited for testing effervescent chemicals. The system eliminates bubbles by pressurizing the sample and forcing the bubbles into solution.

The CLS-700 T corrosive liquid sampler can be integrated into a wet bench for continuous particle monitoring, or located on a cart for increased mobility. When integrated into the wet bench, the sampling system can be started or stopped by the tool, including automatic shut-off during a bath change, to prevent the injection of chemical foam or air into the particle counter.

The CLS-700 T corrosive liquid sampler is fully compliant with SEMI C1 for particle measurement of process chemicals.

PARTICLE MEASURING SYSTEMS
www.pmeasuring.com

BENEFITS

Cost Reduction

- *50 or 80 mL/min. flow rate and 100% view volume means quicker process qualification*
- *Real-time characterization and analysis for immediate response to anomalies means less waste*

Versatility

- *Supports a wide range of applications and fluids*
- *Programmable particle-size thresholds*
- *Designed for easy mobility*
- *Compression sampling allows instrument to measure most chemicals, including effervescent ones*
- *External trigger coordinates sampling with process events*
- *Measurements can be made directly out of the bath*

Easy to Use

- *Facility Net process control software simplifies online sampling by providing alphanumeric paging, sensor status, tabular and SPC charts, and time plots*
- *SamplerSight batch sampling software facilitates all aspects of data management, including sophisticated data storage, retrieval, and report generation*
- *Designed for quick cleanup when switching from one liquid to another*

APPLICATIONS

- *Particle level measurement in effervescent liquids*
- *Wet process monitoring*
- *Chemical process control*
- *Bath monitoring*

Without measurement, there is no control.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

CLS-700 T

Corrosive Liquid Particle Counter

specifications

	CLS-700 T		
Burette volume	65 mL nominal		
Assessed volume	48 mL nominal		
Maximum compression pressure	60 psi at 120°C or less; max. 45 psi at 150°C		
Exterior surface	Polypropylene (Meets flame retardant specification FM4910.)		
Wetted surface materials	Teflon®, Kel-F® (See LiQuilaz particle counter information for other wetted surfaces.)		
Sample temperature	10-150°C at 45 psi or less (maximum 120°C at 60 psi); Sulfuric acid 100°C maximum		
Dimensions (l, w, h)	16 x 10 x 16 in. (41 x 26 x 39 cm)		
Weight	34 lb. (15.5 kg)		
Communications	RS-232 or RS-485		
Environment	Temperature: 10-35°C; Humidity: noncondensing		
Software	SamplerSight, Facility Net		
Sampling	Optionally controlled via external trigger		
Factory Requirements	Power: See sensor requirements. Gas pressure: 70-150 psi. Liquid connections: Flaretek® 1/4 in.		
	LiQuilaz SO2	**LiQuilaz SO3**	**LiQuilaz SO5**
Size range	0.2 - 2.0 µm	0.3 - 3.0 µm	0.5 - 20.0 µm
Channels	15		
Flow rate (ml/min)	50 mL/min. ± 10%	80 mL/min. ± 10%	80 mL/min. ± 10%
Sample volume	Volumetric 50 mL/min. (100%)	Volumetric 80 mL/min. (100%)	Volumetric 80 mL/min. (100%)
Maximum concentration	10,000 particles/mL		
Sample temperature	10 - 150°C (max. 150°C at 45 psi, 120°C at 60 psi); Sulfuric acid 100°C max.		
Maximum pressure	100 psi		
Zero count	<1 count/mL		
Wetted surface materials	Sapphire, Teflon®, Kel-F®, Chemraz®		
Laser source	Laser diode		
Dimensions (l, w, h)	13 x 4 x 5 inches (32 x 11 x 11 cm); mounts inside the CLS-700 T		
Weight	6 lbs. (2.7 kg)		
Power	85 - 132 V or 220-240 V, 50-60 Hz	85 - 250 V, 50-60 Hz	85 - 250 V, 50-60 Hz
Communications	RS-485		
Calibration	Materials used are traceable to USA National Institute of Standards and Testing (NIST) and Japanese Institute of Standards (JIS).		

*Greater than 90% accuracy (less than 10% coincidence loss) at maximum recommended concentration.
Chemraz® is a registered trademark of Greene, Tweed of Delaware.
Kel-F® is a registered trademark of the Minnesota Mining & Manufacturing Company.
Teflon® is a registered trademark of DuPont.
LiQuilaz® is a registered trademark of Particle Measuring Systems, Inc.
U. S. Patent no. 4,728,190

CE BSI FM 40574 Registration applies to the Boulder, Colorado facility.

AUTHORIZED REPRESENTATIVE

PARTICLE MEASURING SYSTEMS
www.pmeasuring.com
info@pmeasuring.com

Particle Measuring Systems Headquarters
5475 Airport Blvd., Boulder, CO 80301
1-303-443-7100 1-800-238-1801 Fax: 1-303-546-7331
Instrument Service & Support: 1-800-557-6363
Customer Response Center: 1-877-475-3317

Particle Measuring Systems Europe
Tel: +44 1684 581000
PMSEurope@pmeasuring.com

Particle Measuring Systems Japan
PMSJapan@pmeasuring.com

Particle Measuring Systems Asia Pacific
PMSAsiaPacific@pmeasuring.com

Particle Measuring Systems Singapore
Tel: +65-6496 0330
PMSSingapore@pmeasuring.com

Particle Measuring Systems China
PMSChina@pmeasuring.com

Particle Measuring Systems Mexico
PMSMexico@pmeasuring.com

Particle Measuring Systems Puerto Rico
PMSPuertoRico@pmeasuring.com

© 2008 Particle Measuring Systems, Inc. All rights reserved.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP