

ARTISAN®
TECHNOLOGY GROUP

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

Artisan Technology Group
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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

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RNet® Particle Sensor

Models 301 and 510



The RNet® particle sensor offers a combination of quality and value that is second-to-none. It features a proprietary, single plate design that reduces system complexity and the number of heat-generating components, while increasing the use of heat-dissipating materials. This not only lowers the initial costs, but extends the life of the laser diode, reducing operating expenses and earning a three year warranty.

BENEFITS

Reduce Defects

- *Real-time monitoring of defect-causing particles*
- *Proven technology provides reliable and accurate data*
- *Users can react immediately to particle contamination events*

Increase Productivity

- *Low cost solution for multi-sensor monitoring*
- *Easy integration with Facility Net software for comprehensive management of cleanroom conditions*
- *Easy to clean/wipe down; designed to minimize particle traps*
- *Proven data integrity*

Cost Effective

- *Three year warranty*
- *Very low cost of ownership*
- *Outstanding diode laser lifetime*
- *Small footprint makes it ideal for installing in tight quarters*

APPLICATIONS

- *Minienvironment monitoring*
- *Cleanroom monitoring*
- *Dedicated monitoring of critical locations*
- *Trend analysis*
- *Statistical process control*
- *Multi-sensor monitoring*

Without measurement, there is no control.

RNet Particle Sensor

Models 301 and 510

specifications

	301	510
First channel size	0.3 µm	0.5 µm
Second channel options	0.5, 1.0, or 2.0 µm	5.0 µm
Flow rate	0.1 ft.^{3}/min. (2.83 LPM)	1.0 ft.^{3}/min. (28.3 LPM)
Flow control	Venturi	
Flow accuracy	< 5% error	
Light source	Laser diode	
Calibration	Particles are traceable to U.S. National Institute for Standards and Technology (NIST) and Japanese Industrial Standards (JIS)	
Counting efficiency	50% ± 20% at 0.30 µm (Meets JIS)	50% ± 20% at 0.50 µm (Meets JIS)
Zero count	< 1 count per 5 min. (Meets JIS)	
Maximum concentration*	> 1,000,000/ft.^{3}	> 500,000/ft.^{3}
External surface	KYDEX® cover, anodized aluminum plate, Delrin® sample probe	
Dimensions (h, w, d)	3.7 x 4.4 x 1.6 inch (9.4 x 11.2 x 4.1 cm)	
Weight	1.0 lb. (0.46 kg)	
Sample probe or tubing	1/4″ ID, 10 ft. (3m) max. length	1/4″ ID, 5 ft. (1.5m) max. length
Flow system	External vacuum	
Vacuum source	> 11 in. Hg	> 13 in. Hg
Power	24 VDC nominal (min. 5.8 VDC, max. 28 VDC); 500 mA (AC power converter supplied)	
Communication modes	RS-485 with either Particle Measuring Systems protocol, or MODBUS® protocol	
Controlling software	Facility Net, Pharmaceutical Net	
Data security	Meets 21CFR11 for download to Facility Net or Pharmaceutical Net	
External alarm output	Maximum voltage, 24 V; maximum current 1A	
Environment	Temperature: 4-35°C, humidity: 10-85%, non-condensing	

* Greater than 95% accuracy (less than 5% coincidence loss) at maximum recommended ambient concentration.

KYDEX® is a registered trademark of the Kleerdex Company. Delrin® is a registered trademark of DuPont. MODBUS® is a registered trademark of Gould, Inc. RNet® is a registered trademark of Particle Measuring Systems, Inc. Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

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

AUTHORIZED REPRESENTATIVE

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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.

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