

ANATEL ULTRAPURE-100 PARTICLE COUNTER



Online particle monitor for UPW plant monitoring

Features

- 0.1 μm and 0.2 μm standard particle sizes
- 4–20 mA analog output connection
- High flow rate – ultra fast clean up time
- Integrated solution with low maintenance
- Superior flow regulation – “set and forget”
- Laser power diagnostic
- Particle counting software available

Particle monitoring and control of ultrapure water (UPW) are becoming more and more critical to a growing array of manufacturing industries. Advances in precision manufacturing technologies such as flat panel display (FPD) and hard disk drive (HDD) components, require that contaminant particles in process fluids be measured to as small as 0.1 μm .

Ultrasure-100 provides a fully integrated solution to 0.1 μm particle monitoring in DI water applications. Whether your requirement is troubleshooting, or simply the monitoring of critical locations within your facility’s ultrapure water plant, you will find Ultrasure-100 an effective and affordable addition to your online process analytics.

The Ultrasure-100 combines robust opto-mechanics, counting and communication electronics, and a unique flow control system all within one instrument to provide unparalleled performance. In high-pressure applications, such as DI water plant monitoring, the total system flow rate is in excess of 1.0 LPM. This results in extremely fast clean up and recovery times and excellent flow regulation, even with dynamic inlet pressures. For hot DI water monitoring applications, the Ultrasure-100 is the ideal solution and is rated to 80° C.

Ultrasure-100 is supplied with an easy to use Windows®-based configuration utility which makes installation and integration quick and easy. Parameters such as number of channels, sampling interval, and 4–20 mA analog output scaling can be quickly tailored to specific requirements. Real time system diagnostics ensure that data integrity is never compromised. Calibration is fully traceable to NIST standards.



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EXCELLENCE IN PROCESS ANALYTICS

Performance Specifications

Size Channels (µm)	0.1 µm, 0.2 µm (plus 0.5 µm and 1.0 µm optional)
Display Resolution	0.01 counts/mL
Zero Count Rate	Meets JISB 9925
System Flow Rate	>1 LPM
Sample Flow Rate	100 mL/min (regulated for inlet pressure between 30 and 100 psi)
Light Source	Laser Diode
Inlet Pressure	100 psig maximum (690 kPa) 7.0 psig minimum
Temperature	Operating 7°C to 40°C (41°F to 104°F) Sample 7°C to 80°C (41°F to 176°F)
Power	90 to 260 VAC, 50/60 Hz
Power Consumption	80 VA maximum (0.8 A at 100 V)
I/O Connections	Analog Opto-isolated 4-20 mA output (2 channels standard, 4 channels optional) RS-232 Serial connection for set-up Electrical I/O connections are located on bottom of unit, with protective cover
Indicators	Power, Laser Condition, Leak Status
Fluid Connections	SS ¼ inch Swagelok (inlet and outlet) External flowmeter
Enclosure	Aluminum alodine with painted external finish
Size	305 w x 203 h x 190.5 d mm (12 x 8 x 7.5 inches)
Relative Humidity	90% maximum, non-condensing
Accessories Included	Power Supply Unit, Software Setup Utility, ¼ inch Nylon Sample and Drain Tubing Power Cord, Operator Manual
Optional Accessories	Wall Mounting Brackets, Data Trending Software



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