CONTAMINATION CONTROL

Remote Particle Counters

Features and Benefits

- 0.3 to 50 µm size range
- Three selectable size channels from 0.3, 0.5, 1.0, 2.0, 2.5, and 5.0 µm
- 2.83 L/min (0.1 CFM) flow rate
- Internal pump with filtered exhaust
- Modbus® TCP over Ethernet output
- 3000 sample record storage for data redundancy
- Configurable IP address
- Local or remote configuration via web browser
- Small form factor and easy to install
- Long life laser diode
- Easy-to-read status indicator

AeroTrak™ Remote Particle Counter
Model 7301-P

The TSI AeroTrak™ 7301-P Remote Particle Counter with Pump is an excellent solution for aerosol monitoring in challenging locations. The Model 7301-P uses an internal vacuum source, providing the freedom to be installed where needed. It continuously collects real-time data. Integration is easy using Modbus® TCP over Ethernet. The product is small, light weight, and easy to install. The instrument can be configured to run with facility monitoring systems, like TSI's FMS 5.

The Model 7301-P complies with stringent resolution requirements set forth in ISO 21501-4. It is calibrated with NIST traceable PSL spheres using TSI's world-class Classifier and Condensation Particle Counters, the recognized standard for particle measurements. Backed with TSI's long-standing reputation for high quality, there are no other particle counters like it on the market today.

Applications

- Excellent for air monitoring in critical infrastructures
- Continuously monitor USP 797 clean spaces
- Designed for ceiling mounting and plenum tested to UL 2043
- Quiet operation for discrete use in offices and hospital pharmacies

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Specifications

Model 7301-P

AeroTrak™ Remote Particle Counter

Features	7301-P
Size Range	0.3 to 50 µm
Particle Channel Sizes	Three channels selectable from 0.3, 0.5, 1.0, 2.0, 2.5 and 5.0 µm via web browser or web page
Size Resolution	<15% @ 0.5 µm (meets ISO 21501-4)
Counting Efficiency	50% at 0.3 µm; 100% for particles >0.45 µm (per ISO 21501-4 and JIS)
Concentration Limit	>1,500,000 particles/ft^3 at 5% coincidence loss
Light Source	Long life laser diode
Zero Count	<10 counts per 5 minutes
Flow Rate	2.83 L/min (0.1 CFM) ±5% accuracy (per ISO 21501-4 and JIS)
Flow Rate Control	Internal Pump with electronic, automatic closed loop
Sample Exhaust	Internal HEPA filter
Sample Time	1 second to 24 hours
Noise	< 50 dBA at 1 meter for all frequencies
Data Storage	3,000 sample records: includes date, time, three particle channels, flow, ID, sample volume; transferable via web browser
Unit ID	Configurable IP address
Status Indicators	Operational (green), Flow Alarm (red), Laser Current Alarm (red), Laser Scatter Alarm (red)
Communication Mode	Modbus® TCP over Ethernet; remote configurable via web browser
Dimension (H x W x D)	16.7 cm x 12.2 cm x 17.3 cm (does not include inlet or flange)
External Surface	Aluminum
Weight	6.38 kg
Power	24 VDC
Operating Range	5˚ to 35˚C, 20% to 95% noncondensing
Storage Range	0 to 50˚C, up to 98% RH noncondensing
Calibration	NIST traceable using TSI Calibration System; calibration port externally accessible
Calibration Frequency	Recommended minimum of once per year

Features	7301-P
Standards	ISO 21501-4, UL 2043
Warranty	One year
Included Accessories	Operating manual on CD-ROM
Optional Accessories	FMS 5 Software

Specifications are subject to change without notice.

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Contact your local TSI Distributor or visit our website **www.tsi.com** for more detailed specifications.

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