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.
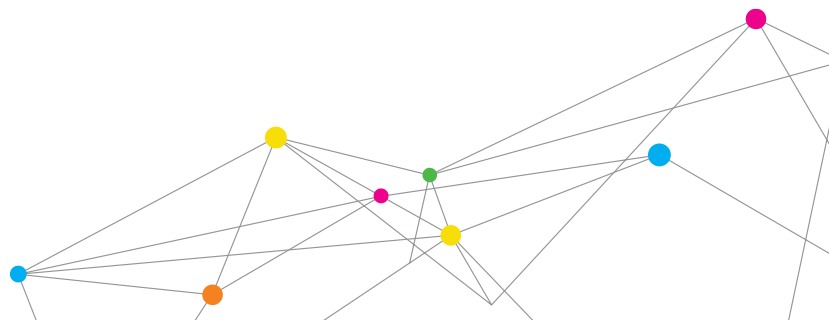
Applications

+ 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

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
+ 0.1 CFM (2.83 L/min) 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

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SPECIFICATIONS

AEROTRAK® REMOTE PARTICLE COUNTER
MODEL 7301-P

Particle Counting	
Size Range	0.3 to 50 µm
Channel Sizes	0.3, 0.5, 1.0, 2.0, 2.5, 5.0 µm Channel Options 3 Channels Selectable
Counting Efficiency	50% at 0.3 µm; 100% at 0.5µm
Concentration Limit	3,400,000 particles/ft³ (120,000,000/m³) @ 10% coincidence loss
Light Source	Laser Diode
Zero Count Level	<1 count per minute
Flow Rate	0.1 CFM (2.83 LPM)
Sample Time	5 seconds to 24 hours
Communication Mode	Modbus® TCP over Ethernet; remote configurable via web browser
Data Storage	3,000 Records
Status Indicators	Health LED
Power	24 VDC
Dimensions	4.8 in x 6.8 in x 6.6 in
Weight	2.9 lbs
Inlet	0.4 in diameter Black Anodized to eliminate ambient light entering measurement chamber
Operating Conditions	50° to 104° (0° to 40°C) 20% to 90% non-condensing
Sound Level	Less than 50 dB at 1 meter
Plenum Rating	Tested to UL 2043

Specifications are subject to change without notice.

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