

# AEROTRAK® REMOTE PARTICLE COUNTERS

## MODELS 7201-A2F, 7301-A2F & 7501-A2F



The AeroTrak® Remote Particle Counters with 2-Channel 4-20 mA output offer the most features and flexibility of any remote particle counters on the market today. These instruments are easy to install, configure and integrate into your systems. High quality connectors are used to make wiring straightforward. Once wired, users can select either Log or Linear 4-20 mA output signals, as well as which of the four standard supplied size channels are configured for the output. Additional remote configuration is easily completed via a web browser. And, a third 4-20 mA output provides Laser status and flow information. Each Remote Particle Counter with Analog Output includes an alarm output that can be wired directly into a PLC.

The TSI AeroTrak Remote Particle Counters with Analog Outputs are a great choice to tie directly into a Building Management System (BMS) or into a PLC.

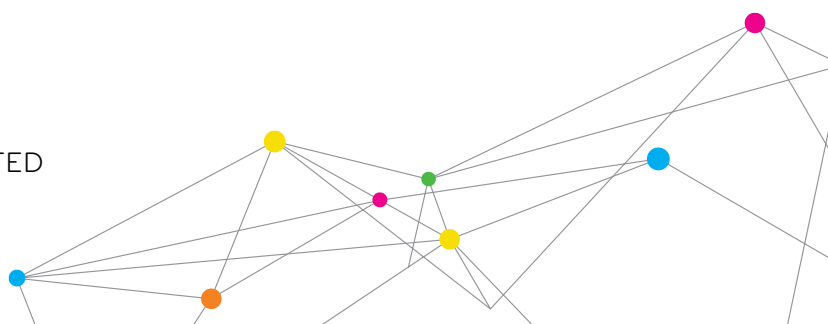
These particle counters are calibrated with NIST traceable PSL spheres using TSI's world-class Classifier and Condensation Particle Counters, the recognized standard for particle measurements. Backed with a standard two-year warranty and TSI's long-standing reputation for high quality, there are no other particle counters like it on the market today.

### Features and Benefits

- + AeroTrak 7201-A2F: 0.2 to 10  $\mu\text{m}$
- + AeroTrak 7301-A2F: 0.3 to 25  $\mu\text{m}$
- + AeroTrak 7501-A2F: 0.5 to 25  $\mu\text{m}$
- + 0.1 CFM (2.83 L/min) flow rate
- + 2 Channel 4-20 mA output
- + 1 Channel 4-20 mA output for laser and flow status
- + 4-20 mA linear and log scaling - user selectable
- + ISO 21501-4 compliant
- + 24 VDC power
- + Configuration via web browser and DIP switches
- + Low outgassing and ionics using 3M™ Adhesive Technology
- + Stainless steel enclosure
- + External alarm output
- + Smallest remote particle counter in the market (0.3  $\mu\text{m}$  @ 0.1 CFM)



UNDERSTANDING, ACCELERATED



## SPECIFICATIONS

### AEROTRAK® REMOTE PARTICLE COUNTERS MODELS 7201-A2F, 7301-A2F & 7501-A2F

	7201-A2F	7301-A2F	7501-A2F
Size Range	0.2 to 10 µm	0.3 to 25 µm	0.5 to 25 µm
Channel Sizes	0.2, 0.3, 0.5, 1.0 µm Additional channel sizes available	0.3, 0.5, 1.0, 5.0 µm Additional channel sizes available	0.5, 1.0, 2.0, 5.0 µm Additional channel sizes available
Counting Efficiency	50% at 0.2 µm; 100% for particles > 0.3 µm (per ISO 21501-4 and JIS)	50% at 0.3 µm; 100% for particles > 0.45 µm (per ISO 21501-4 and JIS)	50% at 0.5 µm; 100% for particles > 0.75 µm (per ISO 21501-4 and JIS)
Concentration Limits	1,160,000 particles/ft <sup>3</sup> (41,000,000/m <sup>3</sup> ) @ 10% coincidence loss	3,400,000 particles/ft <sup>3</sup> (120,000,000/m <sup>3</sup> ) @ 10% coincidence loss	3,400,000 particles/ft <sup>3</sup> (120,000,000/m <sup>3</sup> ) @ 10% coincidence loss
Light Source	Laser diode		
Zero Count Level	<1 count / 5 minutes (<2 particles / ft <sup>3</sup> ) (per ISO 21501-4 and JIS)		
Flow Rate	0.1 CFM (2.83 L/min) with ± 5% accuracy		
Calibration	NIST traceable using TSI calibration system		
Vacuum Requirements	External vacuum > 38.1 cm (15 in.) of Hg		
Communication Mode	4-20 mA: Two channel log or linear particle counts, One channel unit status.		
Sensor Configuration	Via Ethernet (TCP/IP) interface and DIP switch		
Status Indicators	Power, service, sampling		
External Alarm Output	Normal open dry contact rated 0 to 60 V AC/DC 1 Amp		
Sensor Connectivity	Screw terminal		
External Surface	Stainless steel		
Power	24 VDC		
Dimensions (L x W x H)	11.5 cm x 4.1 cm x 14.7 cm (4.5 in. x 1.6 in. x 4.25 in.)		
Weight	0.63 kg (1.4 lb)		
Standards	CE, JIS B9921, ISO 21501-4		
Warranty	Two years. Extended warranties available		
Operating Conditions	10° to 40°C (50° to 104°F) / 20% to 95% non-condensing		
Storage Conditions	-10° to 50°C (14° to 122°F) / 20% to 98% non-condensing		
Included Accessories	Operating manual on CD		
Optional Accessories	Isokinetic inlets, purge filter, sample tubing, vacuum tubing, data cable and remote mounting bracket		

Specifications are subject to change without notice.

AeroTrak, TSI, and the TSI logo are registered trademarks of TSI Incorporated.

3M is a trademark of 3M Company.



UNDERSTANDING, ACCELERATED

**TSI Incorporated** - Visit our website [www.tsi.com](http://www.tsi.com) for more information.

**USA** Tel: +1 800 874 2811  
**UK** Tel: +44 149 4 459200  
**France** Tel: +33 4 91 11 87 64  
**Germany** Tel: +49 241 523030

**India** Tel: +91 80 67877200  
**China** Tel: +86 10 8219 7688  
**Singapore** Tel: +65 6595 6388



Distributed by:  
 Kenelec Scientific Pty Ltd  
 1300 73 22 33  
[sales@kenelec.com.au](mailto:sales@kenelec.com.au)  
[www.kenelec.com.au](http://www.kenelec.com.au)