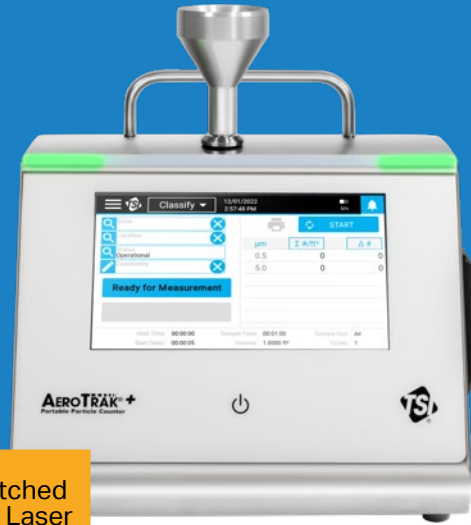




Knowledge Beyond Measure.

AeroTrak™+ Portable Airborne Particle Counters

A100 Series



Unmatched
5 Year Laser
Warranty

AeroTrak™+ Portable Airborne Particle Counters (APCs) are ideal for all industries for cleanroom certification, monitoring and specialized tasks including gas testing and filter scanning.

AeroTrak™+ Portable APCs provide the newest features—data integrity (including Annex 1), communication options, and an intuitive GUI—that lead to a better customer experience and easy compliance. Standalone or as part of an easy to use complete monitoring system, AeroTrak+ Portable APCs meet your needs.

Choose Your Model

| Model | Flow Rate | Channel Size Options | Recommended Manufacturing Application |
|-------------|--|---|--|
| A100-31 | 1 CFM (28.3 LPM) | 0.3 µm to 10 µm, (6) user selectable channels | Pharmaceutical, Semiconductor, Electronics, Aerospace, Optics, Automotive, Clean Manufacturing |
| A100-35 | 1.77 CFM (50 LPM) | 0.3 µm to 10 µm, (6) user selectable channels | Pharmaceutical, Medical, Manufacturing |
| A100-51 | 1 CFM (28.3 LPM) | 0.5 µm to 10 µm, (6) user selectable channels | Pharmaceutical, Semiconductor, Electronics, Aerospace, Optics, Automotive, Clean Manufacturing |
| A100-55 | 1.77 CFM (50 LPM) | 0.5 µm to 10 µm, (6) user selectable channels | Pharmaceutical, Medical, Manufacturing |
| A100-50 | 3.5 CFM (100 LPM) | 0.5 µm to 10 µm, (6) user selectable channels | Pharmaceutical, Medical, Manufacturing |
| A100-(xx) A | "A" suffix adds analog input and output to any model | | |

Features and Benefits

- One instrument does it all- classify, monitor, filter scan, gas testing and root-cause analysis
- Highly visible status conditions - LED light bar viewable 20 meters / 360°
- Access user controls for GMP compliance
- Sample the correct volume of gas with built in gas correction factors
- Automated ISO 14644-1 and GMP (EU GMP and China GMP) reporting and instrument workflow with included TrakPro™ Lite Secure Software
- Filter test and investigate mode (both audible and visual)
- ISO 21501-4 calibration compliance
- WiFi® enabled connectivity
- Industry best 5 year laser warranty
- Fit for purpose - easy to clean, stainless steel housing
- Simplify integration into third party systems with 4-20 mA analog particle data output and environmental sensor input options
- Multiple instrument reporting supported by latest TrakPro™ Lite Secure Software

**Ready for Measurement.
Engineered for You.
Portable Particle Counters to
Make Your Job Easy.**

Specifications

AeroTrak™ + Portable Airborne Particle Counters

A100 Series

Specific Model Specifications

| | A100-31 | A100-35 | A100-51 | A100-55 | A100-50 |
|------------------------|---|---|---|---|---|
| Size Range | 0.3 µm to 10 µm | | | 0.5 µm to 10 µm | |
| Flow Rate | 1 CFM (28.3 LPM) with ± 5% accuracy | 1.77 CFM (50 LPM) with ± 5% accuracy | 1 CFM (28.3 LPM) with ± 5% accuracy | 1.77 CFM (50 LPM) with ± 5% accuracy | 3.53 CFM (100 LPM) with ± 5% accuracy |
| Particle Channel Sizes | 0.3 µm to 10.0 µm, (6) user selectable channels | 0.3 µm to 10.0 µm, (6) user selectable channels | 0.5 µm to 10.0 µm, (6) user selectable channels | 0.5 µm to 10.0 µm, (6) user selectable channels | 0.5 µm to 10.0 µm, (6) user selectable channels |
| Size Resolution | <15% @ 0.3 µm (per ISO 21501-4) | | | <15% @ 0.5 µm (per ISO 21501-4) | |
| Counting Efficiency | 50% at 0.3 µm; 100% for particles >0.45 µm | | | 50% at 0.5 µm, 100% for particles >0.75 µm | |
| Concentration Limit | 8,110,000/ft ³ (286,383,300/m ³) @ 10% coincidence loss all models | | | | |

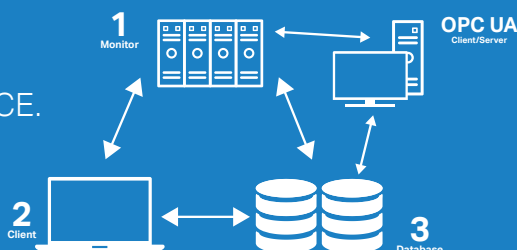
For All Models

| | | | |
|---------------------------------|--|------------------------|---|
| Light Source | Laser Diode | Data Storage | 250,000 sample records, 15 minutes of 1 second data with FMS |
| Vacuum Source | Internal pump with patented flow control technology and automatic manifold detection (patent pending) | Access Control Reports | Multilevel user access with audit trail ISO 14644-1, EU-GMP, China GMP. Reports can be printed or exported to secure XML or PDF |
| Laser Warranty | Five Years | Dimensions (HxWxD) | 8.9 in x 9.8 in x 8.7 in (22.6 cm x 25 cm x 22.2 cm) |
| Instrument Warranty | Two Years | Weight | 4.8 kg (10.5 lbs) with battery 4.3 kg (9.5 lbs) without battery 5.2 kg (11.5 lbs) with two batteries |
| Calibration Frequency | One Year | Power (AC Adapter) | 100 – 240 VAC, 50 – 60 Hz, 1.5A Max Mains supply voltage fluctuations not exceeding +/- 10% of rated voltage, DC power requirement to instrument: 24 VDC @ 5.0 Amps |
| Communication | Modbus TCP, Ethernet, USB, Wireless | Storage Range | -40° to 158°F (-40° to 70°C) / Up to 98% non-condensing relative humidity |
| Near Field Communication | Operator and location | Printer | Built-in thermal printer (foreign languages supported) |
| Wireless Option | RTU Wireless Option Available | Included Accessories | Power cord, battery, isokinetic probe, 3 m (10 ft) tubing, purge filter, printer paper, USB cable, alarm connector, Quick Start Guide, Operation Manual and TrakPro™ Lite Secure Software |
| External Surface | Stainless steel | Optional Accessories | Electronic filter scanning probe, basic filter scanning probe, additional battery, dual-port external battery charger, printer paper, isokinetic probes, sample tubing, shipping case |
| Analog Output Options | 4 Channels 4-20 mA output: 3 User selectable particle sizes-linear or log-scale 1 Status channel | | |
| Standards | CE, JIS B9921, ISO 21501-4 | | |
| Operating Range | 34° to 95°F (1° to 35°C), 5% to 95% non-condensing | | |
| Zero Count | <1 count / 5 minutes at the 95% UCL (per ISO 21501-4 and JIS) | | |
| Sampling Duration | 1 second to 24 hours, continuous | | |
| Languages | English, French, German, Italian, Polish, Portuguese, Spanish, Chinese (Simplified), Japanese, Korean | | |
| Status Indicator (LED Lightbar) | Sampling, Alert, Sampling Complete | | |
| Alarm Output | Normal open dry contact rated 0 to 60 V AC/DC, 1.5 A peak, 0.5 A continuous | | |

NO INTERRUPTIONS.
NO DATA LOSS.
NO-HASSLE COMPLIANCE.

Complete facility monitoring systems offered by TSI®.

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Knowledge Beyond Measure.

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| France | Tel: +33 1 41 19 21 99 | Singapore | Tel: +65 6595 6388 |
| Germany | Tel: +49 241 523030 | | |

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