OCCUPATIONAL HEALTH & SAFETY
Product Guide
As an Occupational Health & Safety Professional or an Industrial Hygienist, you are continuously auditing, documenting, and taking corrective or preventive actions. It’s the only way to keep your teams safe and healthy—and to stay in compliance.

A strong safety program depends on good data. Only with correct measurements, can you identify risks, report on them with confidence, and make informed decisions.

MEASURING WHAT’S IMPORTANT
TSI® develops and manufactures accurate and reliable occupational health and safety instruments to measure what’s important in your safety program. We understand how important your job is—and what you need to do it well.

TRUST TSI® TO HELP YOU HANDLE YOUR OH&S CHALLENGES EVERY DAY.

RESPIRATOR FIT TESTING

RESPIRATOR FIT TESTERS
PortaCount®
Respirator Fit Tester
Models 8040 & 8048

The PortaCount® Respirator Fit Tester provides a consistent and objective respirator fit test in less than 2½ minutes. Beyond the fit test, PortaCount® instruments allow users to see how respirator fit changes in real-time during donning and adjustment, providing valuable training and making mask selection easy.

The PortaCount Respirator Fit Tester Model 8048 can fit test any respirator, including all N95s. The model 8040 provides the same quality fit test for all respirators with ≥99% filter efficiency.

APPLICATIONS
+ Quantitative respirator fit testing (QNFT)
+ Half-facepiece elastomeric respirator fit testing
+ Full-facepiece elastomeric respirator fit testing
+ Disposable filtering-facepiece respirator fit testing for NIOSH Series 100/99/95 and FFP1/FFP2/FFP3 masks (availability dependent on model)
+ SCBA fit testing

Tablet is sold separately or with the 8040T or 8048T packages.
EXPOSURE MONITORING

AEROSOL MONITORS

DustTrak™ II and DustTrak™ DRX Aerosol Monitors
Models 8530 & 8533

The DustTrak™ II and DustTrak™ DRX Aerosol Monitors are battery-operated, data-logging, light-scattering laser photometers that provide real-time mass concentration readings for aerosol contaminants such as dust, smoke, fumes and mist. Instruments use a sheath air system that isolates the aerosol in the optics chamber to keep the optics clean for improved reliability and low maintenance.

The DustTrak™ II Aerosol Monitor provides real-time aerosol mass readings, while the DustTrak™ DRX Aerosol Monitor can measure mass concentrations in four size fractions simultaneously. Both instruments also collect gravimetric samples for lab analysis.

APPLICATIONS
+ Industrial/occupational hygiene surveys
+ Outdoor environmental monitoring
+ Engineering control evaluations
+ Process monitoring
+ Aerosol research studies

HANDHELD AEROSOL MONITORS

DustTrak™ II and DustTrak™ DRX Handheld Aerosol Monitors
Models 8532 & 8534

The DustTrak™ II Aerosol Monitor 8532 is a handheld battery-operated, data-logging, single-channel, light-scattering laser photometer that gives you real-time aerosol mass readings. It uses a sheath air system that isolates the aerosol in the optics chamber to keep the optics clean for improved reliability and low maintenance.

The DustTrak™ DRX Aerosol Monitor 8534 uses the same technology as the 8532 while adding multi-channel capabilities that can simultaneously measure both mass and size fraction.

APPLICATIONS
+ Industrial/occupational hygiene surveys
+ Indoor air quality investigations
+ Point source location monitoring
+ Baseline trending and screening
+ Engineering control evaluations
PERSONAL AEROSOL MONITORS

SidePak™ Personal Aerosol Monitors
Models AM520 & AM520i

SidePak™ AM520 and AM520i Personal Aerosol Monitors measure worker exposure to respirable dust, silica and diesel particulate matter (DPM), including: PM10, PM4 (respirable), PM2.5, PM1, and 0.8μm DPM. Designed to take measurements from the worker-breathing zone, they are the industry’s most versatile, lightweight personal aerosol monitors.

The SidePak™ AM520i is IECEx, ATEX, CSA, and IECEx-SIM certified for use in explosive environments.

INDUSTRY APPLICATIONS
+ Welding
+ Bulk material handling
+ Chemical manufacturing and processing
+ Mining
+ Oil and gas /petrochemical

Primary Calibrator
Models 4046 & 4146

TSI® offers the Model 4046 and Model 4146 Primary Calibrators used to calibrate the flow rate of air sampling instruments. These portable, battery-operated units are easy to operate and come with +/- 2 % of reading accuracy. Volumetric flow rate is displayed continuously so adjustments to pump flow can be made in real-time.

NOISE MONITORS

Quest™ Edge Personal Noise Dosimeters
Models 4+ & 5

Quest™ Edge Personal Noise Dosimeters are easy to use for measuring and data logging a worker’s personal noise exposure. This assists safety professionals with compliance in hearing conservation programs.

+ Quest™ Edge 4+ Personal Noise Dosimeter is available in Bluetooth® and non-Bluetooth models. It features a large color screen, and battery run time of 80+ hours. Bluetooth® connectivity allows users to program, start and stop a study, and monitor results for multiple dosimeters from a distance with the Edge dB app.
+ Quest™ Edge 5 Personal Noise Dosimeter is an intrinsically safe noise dosimeter. The instrument is certified from ATEX, IECEx, CSA and MSHA for use in explosive environments and features three independent dosimeter readings.

APPLICATIONS
+ Mining (Edge 5 for underground)
+ Oil & gas, and energy
+ Manufacturing
+ Noise consultancy
+ Government and military


**SOUND LEVEL METERS**

*Quest™ Sound Examiner and SoundPro™ Sound Level Meters*

SE-400 & SP-Series

Quest™ Sound Level Meters make it simple to document and analyze sound levels across variable environments.

+ Designed with industrial hygienists in mind, Sound Examiner instruments are ideal for managing hearing conservation programs. The IECex and ATEX intrinsically safe certified option is ideal for oil and gas applications.

+ SoundPro™ Sound Level Meters add octave band analysis, offering comprehensive sound data information for industrial hygienists, engineers, and audiologists.

**APPLICATIONS**

+ Occupational noise evaluations
+ Environmental noise assessments
+ General sound and frequency analysis
+ Noise violations and community noise monitoring
+ Automotive design and vehicle noise evaluations

**Acoustic Calibrator**

Model AC-300

The AC-300 Acoustic Calibrator with class 1 microphone calibrates all Quest™ Noise Dosimeters and Sound Level Meters. The microphone produces two signals: 250 Hz or 1,000 Hz at a sound pressure level of 114 dB.

---

**HEAT STRESS MONITORS**

*QuestTemp® WBGT Heat Stress Monitors*

Models 32/34/36 & 44/46

QuestTemp® Heat Stress Monitors are designed to quickly and accurately evaluate potential heat stress environments.

+ The QUESTemp® 44/46 models utilize a waterless wet bulb sensor to calculate wet bulb globe temperature (WBGT).
+ It eliminates the need for daily wet bulb upkeep.
+ The QUESTemp® 32/34/36 models utilize a traditional wet bulb for the calculation of a WBGT index value.

Visit the TSI® website for more information on model features.

**APPLICATIONS**

+ Environmental remediation
+ Military and government
+ Energy and utilities
+ Manufacturing

---
AIR QUALITY MONITORING

OUTDOOR ENVIRONMENTAL MONITORS

DustTrak™ Environmental Monitors

DustTrak™ Environmental Monitors are air monitoring systems utilizing data-logging, light-scattering laser photometers. Early detection features on the DustTrak™ allow for a quick response to exposure concerns. This system is built upon proven technology that thousands of people use every day.

There are a number of model configurations available for the DustTrak Environmental Monitor System. Visit the TSI® website for more information.

APPLICATIONS
+ Outdoor environmental monitoring
+ Monitoring for a Community Air Monitoring Plan (CAMP)
+ Brownfields/remediation monitoring
+ Fence-line construction monitoring

INDOOR AIR QUALITY MONITORS

Q-Trak™ Indoor Air Quality Monitors

Model 7575

Q-Trak™ Model 7575 Indoor Air Quality Monitor provides quick, accurate information to assess key indoor air quality parameters including: CO₂, temperature, humidity, CO and VOCs.

Providing a comfortable, safe, and healthy indoor environment is an increasingly important concern. Good indoor air quality improves concentration and productivity and can also reduce lost days due to health-related absences.

APPLICATIONS
+ IAQ investigations
+ Baseline trending and screening
+ Building commissioning
ULTRA FINE PARTICLE COUNTERS

P-Trak® Ultra Fine Particle Counters
Model 8525

The P-Trak® Model 8525 Ultrafine Particle Counter gives direct, real-time measurement of workplace ultrafine particulate levels (smaller than 1 µm). This portable instrument detects and counts ultrafine particles that often accompany or signal the presence of a pollutant that can be the root cause of IAQ complaints.

APPLICATIONS
+ Check office equipment
+ Off-gassing of chemical cleaning agents
+ Vehicle emission migration
+ Combustion leaks

AIR VELOCITY METERS

VelociCalc® Multi-Function Ventilation Meters
Model 9565

VelociCalc® Air Velocity Meters measure velocity, temperature, humidity, and differential pressure. The Model 9565 is easy to configure for your specific application. Internal data logging records measurements that can be analyzed in TrakPro™ Data Analysis Software to create data records for your reports.

APPLICATIONS
+ Industrial ventilation studies
+ HVAC and fan performance testing
+ Laboratory fume hood testing
+ IAQ investigations
QUALITYGUARD™ SERVICE & CALIBRATION AGREEMENTS

TSI® instruments set the standard for reliability and accuracy. Protect your investment now and in the future with a TSI® QualityGuard™ Calibration or Bumper-to-Bumper (B2B) Warranty Contract.

WHY DO I NEED A TSI® SERVICE CONTRACT?

+ **Upfront Fixed Costs.** No need to procure additional funding for annual calibration and repairs.
+ **Optimal Performance.** Regular service and calibration is the best way to ensure optimal performance during critical projects.
+ **Instrument and Firmware Updates.** Improvements are implemented to products on an on-going basis, some of which are available to customers at no additional charge when their instruments are returned for annual maintenance and calibration.
+ **Quality.** Our Quality System is registered to ISO 9001:2008, and TSI uses NIST traceable analytical tools and NIST traceable standard reference materials to check out and calibrate instruments.
+ **Technical Expertise.** TSI has invested in sophisticated instrumentation to allow our experienced service technicians to test, calibrate and repair our instruments with unparalleled precision.
+ **Value.** QualityGuard™ Calibration and B2B Warranty Contracts are priced to be an incentive for routine calibration and extended warranty services.

OPERATING AT A GLOBAL AND HUMAN SCALE

At TSI®, our global team strives to provide not only instruments, but also innovative solutions. We operate at both a global scale and a human scale—instruments that measure everything from atmospheric aerosols to the fit of a personal respirator. Turning data into actionable information enables our customers to do their jobs more efficiently. TSI® understands the science, the data, and the processes that support your work.

We are proud to provide you with a wide array of products to help you solve your Occupational Health & Safety concerns. Our local Sales Representatives are close by, ready to assist you.

VISIT tsi.com TO LEARN MORE.

TO LEARN MORE AND FIND OUT IF YOUR INSTRUMENT QUALIFIES VISIT: tsi.com/support/service-and-calibration-agreements