

The Leader in Performance Ventilation Measurements



ENERGY AND COMFORT

Ventilation Test Instruments



TRUST. SCIENCE. INNOVATION.

Ventilation Measurement Solutions that Save Time and Money



Monitor Indoor Environments

TSI ventilation test instruments are designed to accurately and reliably measure a wide array of parameters critical to investigating indoor environments. Typical measurements include air velocity, flow, temperature, humidity, pressure and CO₂. TSI instruments are optimized for ease-of-use, yet offer an array of advanced capabilities including data logging.

Rugged and Reliable

Since we introduced our first portable meter in 1973, TSI has been a recognized leader in ventilation test instruments, providing precise measurement you can count on.

Easy and Worry Free

TSI meters enhance your effectiveness on the job site. Large displays are easy to read. Operation is fast and simple. Want a measurement? Just push the button.

Incredible Convenience

TSI's multi-parameter instruments help you avoid the cost and inconvenience of buying a probe for each measurement. For example, the VELOCICALC® Multi-Function Ventilation Meter measures velocity, temperature, humidity and flow with the push of a button. And, with "plug and play" probes, you can conveniently upgrade your instrument.



Your Reports Never Looked So Good!

TSI's new data logging instruments are easy to configure to make calculations, generate test statistics, and store readings.

LogDat2™ Downloading Software quickly downloads test data to a PC. Downloaded data makes it easy for you to create professional reports for your clients.

Outperforms Other Ventilation Test Instruments

Our high performance air velocity meters, micromanometers, capture hoods and indoor air quality meters are in a class by themselves; they do not compete with disposable instruments. Based on a feature comparison, TSI instruments meet or beat our competitors.

Features	Benefits
Substantially better accuracy at low flows and throughout a wide dynamic range	Improved performance on critical applications, resulting in reliable information
Best-in-class data management (logging and downloading for reports) as indicated by customers and distributors	User generated reports help you solve problems, saving time and money
Fast turnaround calibration and repair service with exceptional customer support	The quicker you get your instrument back, the greater your peace of mind and effectiveness

We set the standard for fast, accurate and reliable ventilation test results



Ventilation Solutions



Model 9565

VELOCICALC® Multi-Function Ventilation Meters

Series 9565

- Accurate air velocity measurement
- Simultaneously measures air velocity, flow, temperature, humidity and pressure
- Large graphic display—5 parameters shown at the same time
- Optional "plug and play" plug-in probes available, including CO₂, VOC (volatile organic compounds), and Rotating Vanes
- Manual or continuous data logging with time and date stamp
- LogDat2™ downloading software
- TRAKPRO™ data analysis software generates reports
- User named test IDs
- Bluetooth® printer capability
- Fast calibration and repair service—just send in the probe
- Available with optional articulating probe

from TSI



Model 9535

VELOCICALC® Air Velocity Meters

Models 9535, 9545

- High accuracy over a wide velocity range
- Measures air velocity, flow and temperature
- Model 9545 adds humidity measurement
- Calculates flow rate in duct from velocity and user-input duct size and shape
- Data logging and LogDat2™ downloading software
- Available with optional articulating probe



Model 9515

VELOCICALC® Air Velocity Meters

Model 9515, 9525

- Measures air velocity
- Measures temperature (Model 9515)
- Large, easy-to-read display
- Features 40-inch telescoping straight probe (Model 9515)
- Intrinsically safe version (Model 9525)



Model 5725

VELOCICALC® Rotating Vane Anemometers

Model 5725

- Measures air velocity and temperature
- Features 4-inch (100-mm) diameter rotating vane head
- Provides single area measurement when sweep mode is used
- Calculates flow rate from velocity and user-input "free area"
- Calculates minimum, maximum, and average velocity, temperature and flow

5

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Ventilation Solutions



Model 8375

ACCUBALANCE® Air Capture Hoods

Models 8371, 8375

- Accurate direct air flow readings
- Ergonomic design and ultra light weight for easy one person operation
- Multiple hood sizes available
- Free certificate of calibration
- Detachable digital micromanometer for use in other applications (Model 8375)
- Use with optional Pitot, temperature and humidity probes (Model 8575)
- Data logging and downloading software (Model 8375)



Model 8710

DP-CALC™ Micromanometer

Model 8710

- Accurately measures pressure, velocity (with Pitot), and flow
- Auto-zeroing ensures accurate measurement
- Optional velocity matrix makes it easy to measure filter face velocities and laminar flows
- Data logging and downloading software

DP-CALC™ Micromanometers

Models 5815, 5825

- Measures differential and static pressure from -15 to +15 in. H₂O
- Calculates velocity when used with Pitot tube
- Quick zero function ensures accurate readings
- Performs flow rate calculations from user-input duct size or K-factor (Model 5825)
- Data logs with time and date stamp (Model 5825)
- LogDat2™ downloading software (Model 5825)



Model 5825

from TSI



Model 7545

IAQ-CALC™ Indoor Air Quality Meters

Models 7515, 7525, 7535, 7545

- Fast, accurate measurements in a single probe
- Model 7515 measures carbon dioxide (CO₂) only
- Model 7535 adds data logging of CO₂
- Models 7525 and 7545 simultaneously measure and data log CO₂, temperature and humidity, and calculate % outside air
- Model 7545 also measures carbon monoxide (CO)
- LogDat2 downloading software included (except Model 7515)



Model 7425

TH-CALC™ Thermohygrometers

Models 7415, 7425

- Cost effective meter for thermal comfort studies
- Reliably measures temperature, humidity and wet bulb
- Calculates percentage outside air (Model 7425)
- Data logging and LogDat2™ downloading software (Model 7425)



Air Velocity Transducers

Models 8455, 8465, 8475

- Accurately measures air velocity using thermal anemometry
- Available in multiple sensor styles
- Field-selectable velocity ranges
- Optional Model 8495 Display and Monitor gives digital readout plus user-selectable alarms



Model 8455

Parameters and Features Chart

The chart below is a guide for selecting an instrument that best fits your measurement needs.

	Model	Air Velocity	Temperature Reading	Flow Rate	Differential Pressure	Humidity, %RH, Dew Point, Wet Bulb	% Outside Air	CO ₂ (Carbon Dioxide)	CO (Carbon Monoxide)	VOC (Volatile Organic Compounds)	Density Correction	K-factor	Data Logging/Downloading	Review Data	Statistic	Variable Time Constant	Field Calibration Adjustment	Printer Output	Back-lit Display	Optional Plug-In Probes
VELOCICALC	9515	T	•																	
	9525 ¹	T														•				
VELOCICALC	9535	T	•	T							•		•	•	•	•	•		•	
	9535-A ²	T	•	T							•		•	•	•	•	•		•	
	9545	T	•	T		•					•		•	•	•	•	•		•	
	9545-A ²	T	•	T		•					•		•	•	•	•	•		•	
VELOCICALC	9565	T, P	•	T, P, Δ	•	•	0	0	0	0	•	•	•	•	•	•	•	•	•	•
	9565-A ²	T, P	•	T, P, Δ	•	•	0	0	0	0	•	•	•	•	•	•	•	•	•	•
VELOCICALC Rotating Vane	5725	V	•	V							•		•	•	•	•	•		•	
Air Velocity Transducers	8455	T														•	•			
	8465	T														•	•			
	8475	T														•	•			
ACCUBALANCE	8371			D								•				•	•	•	•	
	8375 ³	P	0	D	•	0					•	•	•	•	•	•	•	•	•	•
DP-CALC	8710	P	0	P, Δ	•	0					•	•	•	•	•	•	•	•	•	•
	5815	P			•															
	5825	P		P, Δ	•						•	•	•	•	•	•	•		•	
IAQ-CALC	7515							•							•	•	•			
	7525		•			•	•	•					•	•	•	•	•		•	
	7535							•					•	•	•	•	•		•	
	7545		•			•	•	•	•				•	•	•	•	•		•	
TH-CALC	7415		•			H, WB														
	7425		•			•	•						•	•	•	•	•		•	

All instruments include a free NIST or EAL Certificate of Calibration.

¹Intrinsically Safe

²Articulating Probe

³Back Pressure Compensated

- = Feature of Instrument
- T = Thermal Anemometer
- P = Pitot Tube Reading
- Δ = Calculated from Differential Pressure
- V = Rotating Vane Anemometer
- WB = Wet Bulb
- H = Humidity
- O = Optional
- D = Direct Reading

Optional Probes for VELOCICALC 9565 Series

Model Probe Description

- 960 - Air Velocity and Temperature, straight probe
- 962 - Air Velocity and Temperature, articulating probe
- 964 - Air Velocity, Temperature, and Humidity, straight probe
- 966 - Air Velocity, Temperature, and Humidity, articulating probe
- 995 - 100 mm Rotating Vane probe
- 496 - 35 mm Rotating Vane probe
- 792 - Surface Temperature probe
- 794 - Air Temperature probe
- 980 - Indoor Air Quality probe, CO₂, Temperature, Humidity
- 982 - Indoor Air Quality probe, CO₂, Temperature, Humidity, CO

Model Probe Description

- 984 - Low Concentration (ppb) VOC and Temperature
- 985 - High Concentration (ppm) VOC and Temperature
- 986 - Low Concentration (ppb) VOC, Temperature, CO₂, and Humidity
- 987 - High Concentration (ppm) VOC, Temperature, CO₂, and Humidity

TSI Incorporated serves a global market by investigating, identifying and solving measurement problems. As an industry leader in the design and production of precision instruments, TSI partners with research institutions and customers around the world to set the standard for measurements relating to aerosol science, air flow, indoor air quality, fluid dynamics and biohazard detection. With headquarters based in the U.S. and field offices throughout Europe and Asia, TSI has established a worldwide presence in the markets we serve. Every day, our dedicated employees turn research into reality.

Contact TSI for a free HVAC handbook: A Practical Guide to Performance Measurements in Mechanical Heating, Ventilating and Air Conditioning Systems. Also available is our free IAQ handbook: A Practical Guide to Indoor Air Quality Investigations.

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