

Air Velocity Meters

TSI VelociCalc® Models 9535 and 9545

The Models 9535 and 9545 air velocity meters are like having multiple meters — for the price of just one. These meters simultaneously measure and data log several ventilation parameters using a single probe with multiple sensors. Both models measure velocity, temperature and calculate flow. The Model 9545 also measures relative humidity, calculates dew point and wet bulb temperature. Models 9535 and 9545 have telescopic straight probes; Models 9535-A and 9545-A have telescopic articulated probes.

FEATURES

- Simple to operate
- Accurate air velocity measurement
- Simultaneously measure temperature and velocity
- Displays up to three measurements simultaneously
- Measures humidity (Model 9545 and 9545-A)
- Calculates volumetric flow and actual/standard velocity
- Data log 12,700+ samples and 100 test IDs
- LogDat2™ downloading software included
- Articulated probe versions available (9535-A and 9545-A)

APPLICATIONS

- HVAC system performance
- Commissioning
- Plant maintenance
- Critical environment certification
- Duct traverses



VelociCalc Model 9545

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
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Air Velocity Meters

TSI VelociCalc® Models 9535 and 9545

SPECIFICATIONS

Velocity	
Range	0 to 6,000 ft/min (0 to 30 m/s)
Accuracy ^{1 & 2}	±3% of reading or ±3 ft/min (±0.015 m/s), whichever is greater
Resolution	1 ft/min (0.01 m/s)
Duct Size	
Dimensions	1 to 250 inches in increments of 0.1 in. (1 to 635 cm in increments of 0.1 cm)
Volumetric Flow Rate Range	Actual range is a function of velocity and duct size
Temperature	
Range (9535 and 9535-A)	0° to 200°F (-18° to 93°C)
Range (9545 and 9545-A)	14° to 140°F (-10° to 60°C)
Accuracy ³	±0.5°F (±0.3°C)
Resolution	0.1°F (0.1°C)
Relative Humidity (9545 only)	
Range	0 to 95% RH
Accuracy ⁴	±3% RH
Range	0.1% RH
Instrument Temperature Range	
Operating (Electronics)	40° to 113°F (5° to 45°C)
Model 9535 Operating (Probe)	0° to 200°F (-18° to 93°C)
Model 9545 Operating (Probe)	14° to 140°F (-10° to 60°C)
Storage	-4° to 140°F (-20° to 60°C)
Data Storage Capabilities	
Range	12,700+ samples and 100 test IDs
Logging Interval	1 second to 1 hour
Time Constant	User selectable
External Meter Dimensions	3.3 in. x 7.0 in. x 1.8 in. (8.4 cm x 17.8 cm x 4.4 cm)
Meter Weight with Batteries	0.6 lbs. (0.27 kg)
Meter Probe Dimensions	
Probe Length	40 in. (101.6 cm)
Probe Diameter of Tip	0.28 in. (7.0 mm)
Probe Diameter of Base	0.51 in. (13.0 mm)
Articulating Probe Dimensions	
Articulating Section Length	7.8 in. (19.7 cm)
Diameter of Articulating Knuckle	0.38 in. (9.5 mm)
Power Requirements	Four AA-size batteries or AC adapter

Model	9535, 9535-A	9545, 9545-A
Velocity	●	●
Temperature	●	●
Flow	●	●
Humidity, Wet Bulb, Dew Point		●
Probe	Straight or -A articulated	Straight or -A articulated
Variable Time Constant	●	●
Manual Data Logging	●	●
Auto Save Data Logging		●
Statistics	●	●
Review Data	●	●
LogDat2 Downloading Software	●	●
Certificate of Calibration	●	●

- 1 Temperature compensated over an air temperature range of 40° to 150°F (5 to 65°C).
 - 2 The accuracy statement begins at 30 ft/min through 6,000 ft/min (0.15 m/s through 30 m/s).
 - 3 Accuracy with instrument case at 77°F (25°C), add uncertainty of 0.05°F/°F (0.03°C/°C) for change in instrument temperature.
 - 4 Accuracy with probe at 77°F (25°C). Add uncertainty of 0.1% RH/°F (0.2% RH/°C) for change in probe temperature. Includes 1% hysteresis.
- Specifications are subject to change without notice.

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