



Model 9545

Features and Benefits

- Accurate air velocity measurement
- Easy to read display
- Simple to operate
- Calibration certificate included

Models 9535, 9535-A, 9545 and 9545-A

- Simultaneously measure temperature and velocity
- Displays up to three measurements simultaneously
- 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)
- Measures humidity (Model 9545 and 9545-A)

VELOCI CALC® Air Velocity Meters

Models 9515, 9535, 9535-A, 9545 and 9545-A

The Model 9515 is an economical choice for a digital air velocity meter, without compromising accuracy or precision. Professionals find them to be the ideal tool for face velocity measurements in fume hoods, spray booths, or ventilation system checks.

The Models 9535 and 9545 Air Velocity 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, and calculates dew point and wet bulb temperature.

Applications

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



Specifications

VELOCICALC Models 9515, 9535, 9535-A, 9545 and 9545-A

Velocity

Range (9515) 0 to 20 m/s (0 to 4,000 ft/min)

Range (9535 and 9545)

0 to 30 m/s (0 to 6,000 ft/min)

Accuracy (9515)^{1&2} ±5% of reading or ±0.025 m/s (±5 ft/min), whichever is greater

Accuracy (9535 and 9545)^{1&2}

±3% of reading or ±0.015 m/s (±3 ft/min), whichever is greater

Resolution 0.01 m/s (1 ft/min)

Duct Size (9535 and 9545)

Dimensions 1 to 635 cm in increments of 0.1 cm
(1 to 250 inches in increments of 0.1 in.)

Volumetric Flow Rate (9535 and 9545)

Range Actual range is a function of velocity and duct size

Temperature

Range (9515, 9535 and 9535-A)

-18 to 93°C (0 to 200 °F)

Range (9545 and 9545-A)

-10 to 60°C (14 to 140°F)

Accuracy³ ±0.3°C (±0.5°F)

Resolution 0.1°C (0.1°F)

Relative Humidity (9545 only)

Range 0 to 95% RH

Accuracy⁴ ±3% RH

Range 0.1% RH

Instrument Temperature Range

Operating (Electronics)

5 to 45°C (40 to 113°F)

Models 9515 and 9535 Operating (Probe)

-18 to 93°C (0 to 200°F)

Model 9545 Operating (Probe)

-10 to 60°C (14 to 140°F)

Storage -20 to 60°C (-4 to 140°F)

Data Storage Capabilities (9535 and 9545)

Range 12,700+ samples and 100 test IDs

Logging Interval (9535 and 9545)

1 second to 1 hour

Time Constant (9535 and 9545)

User selectable

External Meter Dimensions

8.4 cm x 17.8 cm x 4.4 cm (3.3 in. x 7.0 in. x 1.8 in.)

Meter Weight with Batteries

0.27 kg (0.6 lbs.)

Meter Probe Dimensions

Probe Length 101.6 cm (40 in.)

Probe Diameter of Tip

7.0 mm (0.28 in.)

Probe Diameter of Base

13.0 mm (0.51 in.)

Articulating Probe Dimensions

Articulating Section Length

19.7 cm (7.8 in.)

Diameter of Articulating Knuckle

9.5 mm (0.38 in.)

Power Requirements

Four AA-size batteries or AC adapter

	9515	9535, 9535-A	9545, 9545-A
Velocity range 0 to 20.00 m/s (0 to 4000 ft/min)	•		
Velocity range 0 to 30.00 m/s (0 to 6000 ft/min)		•	•
Temperature	•	•	•
Flow		•	•
Humidity, wet bulb, dew point			•
Probe	Straight	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 5 to 65°C (40 to 150°F).

² The accuracy statement begins at 0.15 m/s through 20 m/s (30 ft/min through 4000 ft/min), for the Model 9515, and 0.15 m/s through 30 m/s (30 ft/min through 6,000 ft/min) for Models 9535 and 9545.

³ Accuracy with instrument case at 25°C (77°F), add uncertainty of 0.03°C/°C (0.05°F/°F) for change in instrument temperature.

⁴ Accuracy with probe at 25°C (77°F). Add uncertainty of 0.2% RH/°C (0.1% RH/°F) for change in probe temperature. Includes 1% hysteresis.

Specifications are subject to change without notice.

TSI Incorporated - 500 Cardigan Road, Shoreview, MN 55126-3996 USA

USA	Tel: +1 800 874 2811	E-mail: answers@tsi.com	Website: www.tsi.com
UK	Tel: +44 149 4 459200	E-mail: tsiuk@tsi.com	Website: www.tsiinc.co.uk
France	Tel: +33 491 11 87 64	E-mail: tsifrance@tsi.com	Website: www.tsiinc.fr
Germany	Tel: +49 241 523030	E-mail: tsigmbh@tsi.com	Website: www.tsiinc.de
India	Tel: +91 80 41132470	E-mail: tsi-india@tsi.com	
China	Tel: +86 10 8251 6588	E-mail: tsi-beijing@tsi.com	
Singapore	Tel: +65 6595 6388	E-mail: tsi-singapore@tsi.com	

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