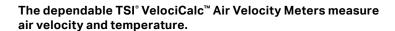


# VelociCalc<sup>™</sup> Air Velocity Meters

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



Models are available to calculate flow rate, perform statistical calculations, and measure humidity with dew point and wet bulb temperature conversions.

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

#### **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
- Articulated probe versions available (9535-A and 9545-A)
- Measures humidity (Model 9545 and 9545-A)



#### **Specifications**

# VelociCalc<sup>™</sup> Air Velocity Meters

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

Velocity

Range (9515) 0 to 4,000 ft/min (0 to 20 m/s) Range (9535 and 9545) 0 to 6,000 ft/min (0 to 30 m/s) Accuracy (9515)182 ±5% of reading or ±5 ft/min

(±0.025 m/s), whichever

is greater

Accuracy

(9535 and 9545)182 ±3% of reading or ±3 ft/min

(±0.015 m/s), whichever

is greater

1 ft/min (0.01 m/s) Resolution

**Duct Size (9535 and 9545)** 

**Dimensions** 1 to 250 inches in increments

of 0.1 in. (1 to 635 cm in increments

of 0.1 cm)

Volumetric Flow Rate (9535 and 9545)

Range Actual range is a function of

velocity and duct size

**Temperature** 

Range (9515, 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<sup>3</sup> ±0.5°F (±0.3°C) Resolution 0.1°F (0.1°C)

Relative Humidity (9545 only)

5 to 95% RH Range

±3% RH Accuracy<sup>4</sup> Range 0.1% RH

**Instrument Temperature Range** 

40 to 113°F (5 to 45°C) Operating (Electronics)

Models 9515 and 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 (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**

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**

40 in. (101.6 cm) Probe Length 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

	9515	9535, 9535-A	9545, 9545-A
Velocity range 0 to 4000 ft/min (0 to 20.00 m/s)	•		
Velocity range 0 to 6000 ft/min (0 to 30.00 m/s)		-	•
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 <sup>™</sup> downloading software		-	•
Certificate of Calibration	•	•	•

Specifications are subject to change without notice.

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P/N 5001015 Rev F (A4) ©2024 TSI Incorporated Printed in U.S.A. 7853255072

<sup>&</sup>lt;sup>1</sup> Temperature compensated over an air temperature range of 40 to 150°F (5 to 65°C).

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

<sup>3</sup> 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.

<sup>4</sup> Accuracy with probe at 77°F (25°C) Add uncertainty of 0.196 PH/°C (0.20°C) and (0.10°C) and (0.10°C) PH/°C (

<sup>&</sup>lt;sup>4</sup> 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.