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

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242
email: sales@geotechenv.com • website: www.geotechenv.com
## Air Velocity Meters

### TSI VelociCalc® Models 9535 and 9545

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>9535, 9535-A</th>
<th>9545, 9545-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Temperature</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Flow</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Humidity, Wet Bulb, Dew Point</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Probe</td>
<td>Straight or articulated</td>
<td>Straight or articulated</td>
</tr>
<tr>
<td>Variable Time Constant</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Manual Data Logging</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto Save Data Logging</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Statistics</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Review Data</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>LogDat2 Downloading Software</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Certificate of Calibration</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

### Velocity
- **Range**: 0 to 6,000 ft/min (0 to 30 m/s)
- **Accuracy**: ±3% of reading or ±3 ft/min (±0.015 m/s), whichever is greater
- **Resolution**: 1 ft/min (0.01 m/s)

### 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**:
  - 1° to 113°F (5° to 45°C): ±0.5°F (±0.3°C)
  - 14° to 140°F (-10° to 60°C): 0.1°F (0.1°C)
- **Relative Humidity (9545 only)**
  - **Range**: 0 to 95% RH
  - **Accuracy**:
    - 1° to 97°F (5° to 36°C): ±3% RH
    - 10° to 140°F (-10° to 60°C): 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
- **Probes Length**: 40 in. (101.6 cm)
- **Probes Diameter of Tip**: 0.28 in. (7.0 mm)
- **Probes 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

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.

**CALL GEOTECH TODAY (800) 833-7958**

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242
email: sales@geotechenv.com • website: www.geotechenv.com