

Ventilation Test Instruments



Model 8710 shown with optional 801090 velocity matrix.

Features and Benefits

- Time-saving features for more readings per day
- 16-point velocity matrix for quick averaged readings per square foot
- Auto-zeroing technology eliminates manual zero calibrations between readings
- Accurate in low range conditions
- Easy-to-read multi-line display with icons
- Longer battery life (12 hours) and faster recharge time than other currently available micromanometers
- TSI's LogDat1™ downloading software included at no additional charge
- Fast, economical factory service ensures quality workmanship and quick turnaround

DP-CALC™ Micromanometer

Model 8710

The Model 8710 DP-CALC Micromanometer is a comprehensive measurement solution for industrial hygienists, certification personnel and HVAC professionals who measure pressure, temperature, velocity and flow. This innovative instrument features a velocity matrix, auto zero and low-flow accuracy for fast, reliable measurements. The Model 8710 also offers ergonomic design, full data logging, and TSI's fast factory service.

Applications

- Fume hood and biological safety cabinet face velocity spot checking
- HVAC system testing, adjusting and balancing
- Building and system commissioning
- Energy efficiency studies
- Clean-room testing
- Industrial hygiene studies
- Regulatory compliance checks



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Specifications

DP-CALC Model 8710

Differential Pressure

Range	±15 in. wc (3735 Pa); 150 in. H ₂ O maximum safe operating pressure
Accuracy	2% of reading ±0.001 in. H ₂ O (0.025 mm wc)
Resolution	0.00001 in. H ₂ O (0.001 Pa)

Absolute Pressure

Range	15 to 40 in. Hg (356 to 1016 mm Hg)
Accuracy	2% of reading
Resolution	0.001 in. Hg (1 mm Hg)

Air Velocity¹

Range	25 to 8,000 ft/min (0.13 to 41 m/s) Pitot Probe 25 to 5,000 ft/min (0.13 to 25 m/s) Air Flow Probe 25 to 2,500 ft/min (0.13 to 13 m/s) Velocity Matrix
Accuracy²	3% of reading; ±7 ft/min (0.04 m/s) All Probes
Resolution	0.1 ft/min (0.1 m/s)

Temperature Probe¹

Range	-40 to 250 °F (-40 to 121 °C) probe dependent
Accuracy	±0.5 °F (0.3 °C) from 32 to 160 °F (0 to 71°C); typically ±1.0 °F (0.6 °C) from -40 to 32 °F (-40 to 0 °C) and from 160 to 250 °F (71 to 121 °C)
Resolution	0.1 °F (0.1 °C)

Relative Humidity Probe¹

Range	0 to 95% RH
Accuracy	3% RH
Resolution	0.1% RH

Averaging Capability

Up to 1,000 values each of measured parameter

Sampling Interval

Continuous or user selectable (10 to 600 s)

Response Time

2 to 8 s

Size

External Dimensions	7.4 in. x 4.5 in. x 2.3 in. (18.8 cm x 11.4 cm x 5.8 cm)
Weight with Batteries	17 oz (0.5 kg)

Instrument Operating

Range	40 to 140 °F (4.4 to 60 °C)
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Meter Display

6 digit LCD, 0.75 in. character height, multi-line sectored high contrast backlit

Power

Type 4 AA-size batteries rechargeable NiMH (included) or alkaline, AC adaptor

Battery Life

12 hr

Battery Recharge Time 5 hr (internal charger)

Warranty

2-yr factory warranty

¹ These specifications apply only when the applicable accessory probes are used with the Model 8710 Micromanometer.

² At >50 ft/min

Specifications are subject to change without notice.

Standard Accessories Include: Model 8710 DP-CALC Micromanometer, carrying case, 18 in. (45.7 cm) pitot probe, two static pressure probes, 16 ft (5 m) Neoprene tubing, battery charger (internal & external), 4-AA rechargeable NiMH batteries, AC adaptor, LogDat1 downloading software, NIST traceable calibration certificate and manual.

Optional Accessories: 800187 Air Flow Probe 18 in. (46 cm), 801090 Velocity Matrix, 800218 Temperature Probe, 800219 Temperature and Humidity Probe



8710 DP-Calc shown with standard and optional accessories.

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