# Model 8710 **DP-C**<sub>ALC™</sub> Micromanometer



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

## **Additional Features:**

- Modular kit options to meet your application and budget requirements
- 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 even 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 LogDat<sup>™</sup> downloading software included at no additional charge
- Fast, economical factory service ensures quality workmanship and quick turnaround



## **Specifications**

### **Model 8710 DP-Calc Micromanometer**

Differential Pressure

Range  $\pm 15$  in. wc (3735 Pa); 150 in. wc maximum safe

operating pressure

Accuracy 2% of reading; ±0.001 in. wc (0.025 mm wc)

from 0.050 to 15 in. wc

**Resolution** 0.00001 in. wc (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 Velocity\*

Accuracy

**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 3% of reading;  $\pm 7$  ft/min (0.04 m/s)\*\* All Probes

**Resolution** 0.1 ft/min (0.1 m/s)

Temperature Probe\*

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 Probe\*

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

Averaging Capability Up to 1,000 values each of measured parameter Continuous or user selectable (10 to 600 s)

Response Time 2 to 8 s

Size

External Dimensions  $7.4 \text{ in.} \times 4.5 \text{ in.} \times 2.3 \text{ in.}$ 

 $(18.8 \text{ cm} \times 11.4 \text{ cm} \times 5.8 \text{ cm})$ 

Weight with Batteries 17 oz (0.5 kg)

Specifications are subject to change without notice.

**Instrument Operating** 

Range 40 to 140 °F (4.4 to 60 °C)

Meter Display 6 digit LCD, 0.75 in. character height,

multi-line sectored high contrast backlit

Power 4 AA-size batteries rechargeable

NiMH (included) or alkaline, AC adaptor

Battery Life 12 hr

Battery Recharge Time 1 hr (external charger), 5 hr (internal charger)

Warranty 2-vr factory warranty

 $\boldsymbol{*}$  These specifications apply only when the applicable accessory probes are used with the Model 8710 Micromanometer.

#### **Accessories Available**

A variety of optional or spare probes are available. Consult TSI or your local distributor for a full listing of available accessories and probes.

## **Model Selection Chart**

Model	Manometer	Air Flow	Velocity Matrix	Temp	RH & Temp
8710-AN1	•				
8710-VN1	•		•		
8710-OH1	•		•	•	
8710-XX1	•	•	•	•	•

All models 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, LogDat downloading software, NIST traceable calibration certificate and manual.





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<sup>\*\*</sup>At >50 ft/min