

Ventilation Test Instruments

Model 5825



Features and Benefits

- Measure differential and static pressure from -15 to +15 in. H₂O (-3735 to +3735 Pa)
- Calculate and display velocity when using a Pitot tube

Added Features Model 5825

- Calculates flow
- Variable time constant
- Statistics
- Data logging with time and date stamp
- Stores 12,700+ samples and 100 test IDs
- Includes LogDat2™ downloading software
- Programmable K factors

DP-CALC™ Micromanometers

Models 5815 and 5825

The DP-CALC 5815 and 5825 micromanometers allow you to easily make HVAC pressure measurements. These robust instruments can be used with Pitot probes to measure duct velocity. The DP-CALC 5815 is a simple to operate, hand held digital Micromanometer for fast, accurate differential and static pressure measurements. The high performance DP-CALC 5825 can calculate flow and has data logging capabilities.

Applications

- HVAC commissioning and troubleshooting
- Testing and balancing
- Pitot tube duct traverses
- Static pressure measurements
- Pressure drop across filters, coils, fans, and diffusers
- Environmental air flow testing



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Specifications

DP-CALC Models 5815 and 5825

Static/Differential Pressure

Range¹	-15 to +15 in. H ₂ O (-28.0 to +28.0 mm Hg, -3735 to +3735 Pa)
Accuracy	±1% of reading ±0.005 in. H ₂ O (±0.01 mm Hg, ±1 Pa)
Resolution	0.001 in. H ₂ O (0.1 Pa, 0.01 mm Hg)

Velocity (Pitot Tube)

Range²	250 to 15,500 ft/min (1.27 to 78.7 m/s)
Accuracy³	±1.5% at 2,000 ft/min (10.16 m/s)
Resolution	1 ft/min (0.1 m/s)

Duct Size (5825)

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

Volumetric Flow Rate (5825)

Range Actual range is a function of velocity, pressure, duct size, and K factor

Instrument Temperature Range

Operating	40 to 113°F (5 to 45°C)
Storage	-4 to 140°F (-20 to 60°C)

Data Storage Capabilities (5825)

Range 12,700+ samples and 100 test IDs

Logging Interval (5825)

1 second to 1 hour

Time Constant (5825)

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)

Power Requirements

Four AA-size batteries (5815)

Four AA-size batteries or optional AC adapter (5825)



	5815	5825
Differential and static pressure	•	•
Velocity with pitot tube	•	•
Sample statistics		•
Volumetric flow rate		•
Actual and standard velocity		•
Variable time constant		•
LogDat2 downloading software		•
K factor		•
Certificate of Calibration	•	•

¹ Overpressure range = 190 in. H₂O (7 psi, 360 mmHg, 48 kPa).

² Pressure velocity measurements are not recommended below 1,000 ft/min (5 m/s).

³ Accuracy is a function of converting pressure to velocity. Conversion accuracy improves when actual pressure values increase.

Specifications are subject to change without notice.

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