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

Features and Benefits

- Measure differential and static pressure from -15 to +15 in. H_2O (-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
- Programmable K factors

Specifications

DP-Calc™ Micromanometers

Models 5815 and 5825

Static/Differential Pressure

Range[1]	-15 to +15 in. H_2O (-28.0 to +28.0 mm Hg, -3735 to +3735 Pa)
Accuracy	±1% of reading ±0.005 in. H_2O (±0.01 mm Hg, ±1 Pa)
Resolution	0.001 in. H_2O (0.1 Pa, 0.01 mm Hg)

Velocity (Pitot Tube)

Range[2]	250 to 15,500 ft/min (1.27 to 78.7 m/s)
Accuracy[3]	±1.5% at 2,000 ft/min (10.16 m/s)
Resolution	1 ft/min (0.1 m/s)

Duct Size (5825)

1 to 500 inches in increments of 0.1 in.

(2.5 to 1270 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)

[1]Overpressure range = 190 in. H_2O (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.

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)

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