



® Knowledge Beyond Measure.

# 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<sub>2</sub>O (-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



## Specifications

# DP-Calc™ Micromanometers

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The Q-Trak™ XP Indoor Air Quality Monitor Model 7585 arrives from the factory with the following preset technical specifications.

### Static/Differential Pressure

|                    |  |
|--------------------|--|
| Range <sup>1</sup> | -15 to +15 in. H <sub>2</sub> O<br>(-28.0 to +28.0 mm Hg, -3735 to +3735 Pa) |
| Accuracy           | ±1% of reading ±0.005 in. H <sub>2</sub> O<br>(±0.01 mm Hg, ±1 Pa)           |
| Resolution         | 0.001 in. H <sub>2</sub> O (0.1 Pa, 0.01 mm Hg)                              |

### Velocity (Pitot Tube)

|                       |   |
|-----------------------|---|
| Range <sup>2</sup>    | 250 to 15,500 ft/min (1.27 to 78.7 m/s) |
| Accuracy <sup>3</sup> | ±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) |

<sup>1</sup>Overpressure range = 190 in. H<sub>2</sub>O (7 psi, 360 mmHg, 48 kPa).

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

<sup>3</sup>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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### 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           |            | ▪          |
| LogDat2 downloading software     |            | ▪          |
| K factor                         |            | ▪          |
| Certificate of Calibration       | ▪          | ▪          |



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|----------------|------------------------|------------------|-----------------------|
| <b>USA</b>     | Tel: +1 800 874 2811   | <b>India</b>     | Tel: +91 80 67877200  |
| <b>UK</b>      | Tel: +44 149 4 459200  | <b>China</b>     | Tel: +86 10 8219 7688 |
| <b>France</b>  | Tel: +33 1 41 19 21 99 | <b>Singapore</b> | Tel: +65 6595 6388    |
| <b>Germany</b> | Tel: +49 241 523030    |                  |                       |