



This device measures Differential Pressure, Air Velocity, Air Flow and Temperature. Additional features includes Data Hold, Auto Power Off, and a USB for capturing reading to a PC using optional software.



## DT-8897

### PRESSURE MANOMETER AND FLOW METER

- | Larger LCD display with backlight
- | Relative time clock on MAX, MIN and AVG provides a time reference for measurement
- | Pressure measurement with Zero Adjust and DIF function
- | Display Pressure, Air Velocity or Air Flow plus Temperature simultaneously
- | Easy to set Area dimension (up to 8 point)
- | USB interface, USB to UART Bridge Controller
- | Low Battery Indication, and Auto Power Off mode (Sleep mode) increases battery life

# DT-8897

## Pressure Manometer and Flow Meter



### General Specifications

|                       |                 |
|-----------------------|-----------------|
| Operating Conditions  | 0 to 50°C       |
| Storage Conditions    | -10 to 60°C     |
| Power Supply          | 1x 9V Battery   |
| Low Battery Indicator | Yes             |
| Dimensions            | 203mmx75mmx50mm |

### Manometer Specification

|                       |                          |       |            |
|-----------------------|--------------------------|-------|------------|
| Accuracy              | ± 0.3%FSO (25°C)         |       |            |
| Repeatability         | ± 0.2% (Max.+/-0.5% FSO) |       |            |
| Linearity/Hysteresis  | ± 0.29% FSO              |       |            |
| Pressure Range        | ± 2 psi                  |       |            |
| Maximum Pressure      | 10psi                    |       |            |
| Response Time         | 0.5 Seconds typical      |       |            |
| Over range Indicator  | Err.1 (DIF Err.3)        |       |            |
| Under range Indicator | Err.2 (DIF Err.4)        |       |            |
| Units and Resolution  | Units                    | Range | Resolution |
|                       | psi                      | 2.000 | 0.001      |
|                       | mbar                     | 137.8 | 0.1        |
|                       | Kpa                      | 13.78 | 0.01       |
|                       | inHg                     | 4.072 | 0.001      |
|                       | mmHg                     | 103.4 | 0.1        |

### Range of Air Velocity

| Air Velocity                    | Range      | Resolution | Accuracy       |
|---------------------------------|------------|------------|----------------|
| m/s (meter per second)          | 0.40-30.00 | 0.01       | ±3% ±0.20 m/s  |
| ft/min (feet per minute)        | 80-5900    | 1          | ±3% ±40 ft/min |
| km/h (kilometers per hour)      | 1.4-108.0  | 0.1        | ±3% ±0.8 km/h  |
| MPH (miles per hour)            | 0.9-67.0   | 0.1        | ±3% ±0.4 MPH   |
| Knots (nautical miles per hour) | 0.8-58.0   | 0.1        | ±3% ±0.4 knots |

### Rang of Air Flow

| Air Flow | Range            | Resolution   | Area           |
|----------|------------------|--------------|----------------|
| CFM      | 0-999,900ft³/min | 0.001 to 100 | 0.000-999.9ft² |
| CMM      | 0-999,900m³/min  | 0.001 to 100 | 0.000-999.9m²  |

CFM(ft³/min)=Air Velocity(ft/min)XArea(ft²)

CMM(m³/min)=Air Velocity(m/s)XArea(m²)X60

CFM: cubic feet per minute

CMM: cubic meters per minute

### Range of Temperature

|    | Range           | Resolution | Accuracy |
|----|-----------------|------------|----------|
| °C | 0 to 50.0°C     | 0.1        | ± 1.0°C  |
| °F | 32.0 to 122.0°F | 0.1        | ± 2.0°F  |

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