

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



General Specifications

Operating Conditions	0 to 50°C
Storage Conditions	-10 to 60°C
Power Supply	1× 9V Battery
Low Battery Indicator	Yes
Dimensions	203mm×75mm×50mm

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

Range 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