

VELTRON DP100

Ultra-Low Differential Pressure Transmitter

Air Monitor's VELTRON DP100 is designed for exposed mounting in protected (building) areas to measure static pressure, differential pressure or velocity pressure, and output a linearized voltage or current signal.

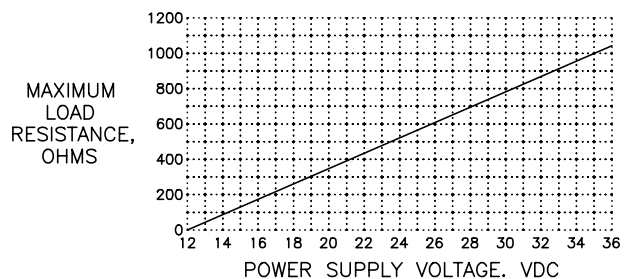
Performance Specifications

- **Accuracy.** $\pm 1\%$ of Full Span, including non-linearity, hysteresis, and non-repeatability.
- **Ranges.**

0 to 10.00 Inches w.c.	-10.00 to 10.00 Inches w.c.
0 to 5.00 Inches w.c.	- 5.00 to 5.00 Inches w.c.
0 to 3.00 Inches w.c.	- 3.00 to 3.00 Inches w.c.
0 to 2.00 Inches w.c.	- 2.00 to 2.00 Inches w.c.
0 to 1.00 Inches w.c.	- 1.00 to 1.00 Inches w.c.
0 to 0.50 Inches w.c.	- 0.50 to 0.50 Inches w.c.
0 to 0.25 Inches w.c.	- 0.25 to 0.25 Inches w.c.
0 to 0.10 Inches w.c.	- 0.10 to 0.10 Inches w.c.
- **Transducer Response Time.** 250 milliseconds to reach 98% of a step change.
- **Temperature Effect.** Zero. $\pm 0.025\%$ of Full Scale/ $^{\circ}\text{F}$.
Span. $\pm 0.025\%$ of Full Scale/ $^{\circ}\text{F}$.
- **Span and Zero Adjustment.** $\pm 4\%$ of Full Span for Zero and Span, non-interactive.
- **Power Supply.** 12-36VDC for all models, reverse polarity short-circuit proof.
- **Analog Outputs.** 4-20mA DC, 2-wire configuration.
- **Temperature Limits.** -20 to 160 $^{\circ}\text{F}$ Storage; +20 to 120 $^{\circ}\text{F}$ Operating.
- **Stability.** $\pm 0.5\%$ of Full Span for six months.
- **Mounting Position Effect.** Less than 0.20% of Full Span.
- **Overpressure and Static Pressure Limit.** 15 psig.
- **Humidity Limits.** 0-95% RH, non-condensing.
- **Signal Connections.** Brass barbed fittings for 1/4" O.D. tubing.
- **Dimensions.** 3.00" high x 3.75" wide x 1.75" deep.

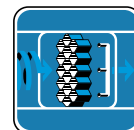


Load vs. Power Supply Voltage



Model Number Guide

Range	Model	Range	Model	Range	Model	Range	Model
0 to 0.10" w.c.	DP100-420I-.10	0 to 2.00" w.c.	DP100-420I-2.0	-0.10 to 0.10" w.c.	DP100-420B-.10	-2.00 to 2.00" w.c.	DP100-420B-2.0
0 to 0.25" w.c.	DP100-420I-.25	0 to 3.00" w.c.	DP100-420I-3.0	-0.25 to 0.25" w.c.	DP100-420B-.25	-3.00 to 3.00" w.c.	DP100-420B-3.0
0 to 0.50" w.c.	DP100-420I-.50	0 to 5.00" w.c.	DP100-420I-5.0	-0.50 to 0.50" w.c.	DP100-420B-.50	-5.00 to 5.00" w.c.	DP100-420B-5.0
0 to 1.00" w.c.	DP100-420I-1.0	0 to 10.0" w.c.	DP100-420I-10.0	-1.00 to 1.00" w.c.	DP100-420B-1.0	-10.0 to 10.0" w.c.	DP100-420B-10.0



AIR MONITOR
CORPORATION



FAN-E AIRFLOW MEASURING STATION.

Multi-point, self-averaging, Pitot traverse station with integral air straightener-equalizer honeycomb cell. Capable of continuously measuring fan discharges or ducted airflow with an accuracy of two percent or better.



VOLU-PROBE/1,2,3,4 AIRFLOW TRAVERSE PROBES.

Multi-point, self-averaging, Pitot Fechheimer airflow traverse probes with integral airflow direction correcting design. Four mounted configurations to fit every application.



VOLU-PROBE/FI FAN INLET AIRFLOW PROBES.

Multi-point, self-averaging, Pitot Fechheimer airflow probes with integral airflow direction correcting design. For mounting directly in the inlet cones or bellmouth of centrifugal or vane-axial fans to measure fan capacities within three percent of actual flow.



VOLU-PROBE/VS AIRFLOW TRAVERSE PROBE STATIONS.

Multi-point, self-averaging, Pitot Fechheimer airflow probes factory mounted in a flanged sheet metal casing, with interconnecting tubing. Capable of measuring ducted airflow within two percent accuracy without using an air straightener or incurring significant resistance to airflow.



S.A.P./1,2,3,4 and S.O.A.P. STATIC PRESSURE SENSORS.

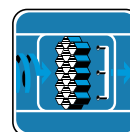
Available in four separate mounting configurations, the S.A.P. family of static pressure sensors generate a steady, non-pulsating output of room, space or plenum pressure.

The S.O.A.P. was designed to accurately sense outside atmospheric air pressure.



STAT-PROBE STATIC PRESSURE TRAVERSE PROBE.

Multi-point, self-averaging, Fechheimer static pressure traverse probe for accurate sensing of duct or system static pressure in the presence of turbulent or rotational airflows.



Crop Box for VELTRON DP100
Increase an additional 35%.
Outcome to be 3.375 x 3.375.

