

DPT-100 PRESSURE & FLOW TRANSMITTER SUBMITTAL



DESCRIPTION

The DPT-100 Pressure & Flow Transmitter is designed to measure differential pressure and calculate airflow with high precision. It features a temperature-compensated piezoresistive measuring element that ensures excellent long-term stability. The DPT-100 offers freely adjustable measuring range and can be easily configured via integrated buttons and the display interface.

APPLICATIONS

Building Airflow Measurement:

- Supply Ducted Air Flow
- Return Ducted Air Flow
- Single Fan Systems

Room Pressurization:

- Positive and Negative Space Pressurization
- Fan Discharge Plenum Pressure
- Room Pressure Average Sensing
- Large Duct Pressure

CALIBRATION

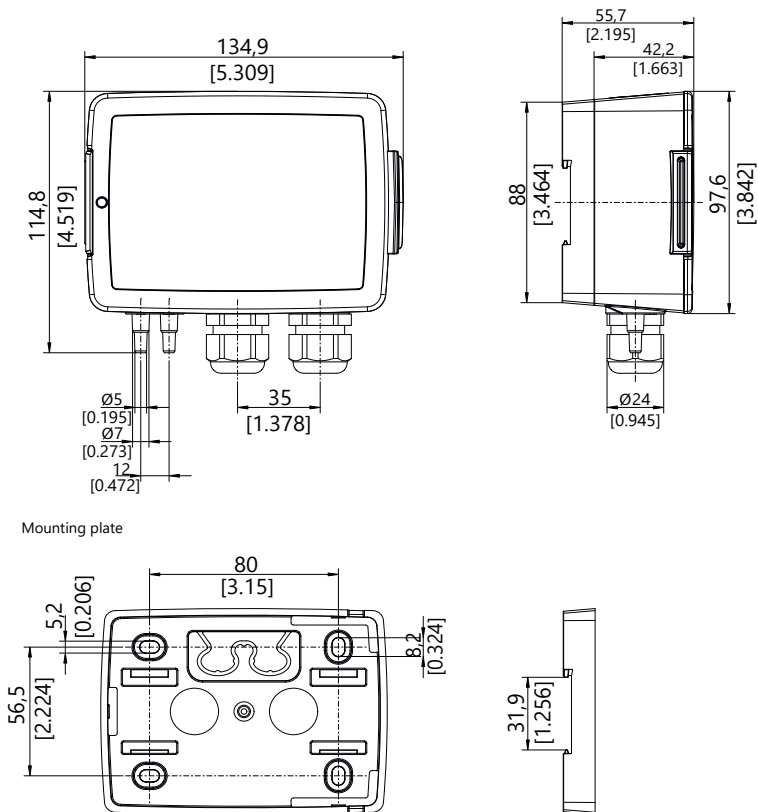
All DPT-100 transmitters are calibrated in a laboratory against standards that are directly traceable to National Institute of Standards and Technology (N.I.S.T.).

PERFORMANCE SPECIFICATIONS System Accuracy: Transducer Accuracy:	±4% of reading when combined with Air Monitor probes at standard conditions ±2.0% of reading when within a 20:1 DP turndown ratio of max pressure range selected.
Differential Pressure Resolution:	±0.001" W.C.
OPERATING CONDITIONS Ambient Temperature:	• -40°F to 180°F (storage) • -4°F to 140°F with display (14°F with Auto Zero) • -40°F to 140°F without display
Fluid Temperature Range:	• -4°F to 120°F • 0 to 95% RH, non-condensing • 40" W.C. (C=A, B, D), 400" W.C. (C=C)
INPUT POWER 24 VAC: 24 VDC:	24 VAC ±10%; 50Hz/60Hz, 2.5VA at 24 VAC 24V VDC ±10%, 1.7W at 24 VDC
TRANSDUCER DESIGN Available options:	• -1" to 1" • 0 to 1" • 0 to 10" • 0 to 28"
I/O SIGNALS Analog Outputs:	Single active analog output, selectable based on configuration
PROGRAMMING	Menu driven user interface via three (3) pushbuttons.
ELECTRONICS ENCLOSURE Display: Enclosure Rating:	2.0" diagonal color graphical TFT LCD IP65 Rated
ELECTRONICS CONNECTIONS Power: Communications: I/O:	Designed for use with 20 gauge wire. Designed for use with 20 gauge wire. Designed for use with 20 gauge wire.
PROCESS CONNECTIONS	Tubing with inner diameter of 0.25" or 6 mm.
CERTIFICATIONS: CE	EMC, RED, RoHS, and WEEE directive

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DIMENSIONAL SPECIFICATIONS IP65 ENCLOSURE

Dimensions in mm [in]



MODEL SELECTION GUIDE - DPT-1/ABC

DPT-100		A	B	C
A = Display				
1 = Display				
B = Auto Zero				
0 = No Auto Zero (Required on C=C)				
1 = Includes Auto Zero (Required on C = A, B, D)				
C = Pressure Range				
A = -1 to 1" W.C.				
B = 0 to 10" W.C.				
C = 0 to 28" W.C.				
D = 0 to 1" W.C.				

SUBMITTAL SHEET

DPT-100 PRESSURE & FLOW TRANSMITTER
(Transmitter Specifications)



ITEM	TAG/QTY	FLOW ELEMENT: (AMC, VOLU-probe, Other)	MAXIMUM DESIGN AIRFLOW	ANALOG FULL SCALE	PROBE SIDE DUCT DIMENSION OR CIRCULAR DIAMETER	ADJACENT SIDE DUCT DIMENSION (specify if oval)	FLOW UNITS: (CFM, l/s, M3/h, ft/min, m/s, DP only)	ANALOG OUTPUT: (4-20mA, 0-5V, 2-10V, 0-10V)	DP UNITS: (" W.C., Pa, mm W.C., kPA, mbar)	NOTES
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2										
3										
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DPT-100 PRESSURE & FLOW TRANSMITTER SUBMITTAL

TO:

DATE:

PROJECT NAME:

CONTRACTOR:

ENGINEER:

AIR MONITOR REP:

SUBMITTAL FOR:

RECORD

APPROVAL

APPROVED BY:

RELEASED FOR:

MANUFACTURING AND SHIPMENT

HOLD FOR RELEASE

APPROVED

APPROVED AS NOTED

DISAPPROVED

EXPLANATION:

PLEASE RETURN APPROVED DRAWINGS TO:

ATTENTION:

SUBMITTED BY:

