AIR FLOW AND VELOCITY TRANSMITTERS DPT-FLOW-BATT

Multifunctional air flow meter for building automation systems where electricity is not available

5 YEAR WARRANTY

The DPT-Flow-Batt series air flow transmitters are engineered for building automation in the HVAC/R industry. The most technologically advanced transmitters on the market, measuring volume flow, velocity, and static and differential pressure. The DPT-Flow-Batt series devices can be connected directly to the pressure measurement points in a centrifugal fan, providing accurate flow measurement of the fan. The smart user interface enables easy selection of settings according to the selected fan or in-duct measurement probe.

DPT-Flow-Batt series devices include:

- Two field selectable functions:
  - o Measure in-duct volume flow, velocity or differential pressure
  - o Measure airflow across centrifugal fans
- Multiple field selectable measurement units:
  - o Volume flow: m3/s, m3/h, cfm, l/s
  - o Velocity: m/s, ft/min
  - o Pressure: Pa, inWC, mmWC, kPa, mbar

SIMILAR PRODUCTS

- AVT series air velocity transmitters
- DPT-2W-Q series differential pressure transmitters with flow linear output
- DPT-R8 series 8-range differential pressure transmitters
- DPT-MOD series differential pressure transmitters with Modbus configuration

APPLICATIONS

DPT-Flow-Batt series devices are commonly used in HVAC/R systems for:

- air flow monitoring across centrifugal fans and blowers
- in-duct air flow monitoring

MODEL SUMMARY

	DPT-FLOW-BATT-7000	
Measurement ranges (Pa)	0–7000 Pa	
Description	**Model**	**Product code**
Flow meter for measuring air flow in building automation systems where electricity is not available - with display	DPT-FLOW-Batt-7000-D	102.006.031

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SPECIFICATIONS

Performance
Accuracy (from FS):
±1.5 %
(Accuracy specifications include: general accuracy, temperature drift, linearity, hysteresis, long term stability, and repetition error)
Thermal effects:
Temperature compensated across the full spectrum of capability
Overpressure:
Proof pressure: 25 kPa
Zero point calibration:
Manual pushbutton
Response time:
1.0–10 s, selectable via menu

Technical Specifications
Media compatibility:
Dry air or non-aggressive gases
Pressure units (select via menu):
Pa, kPa, mbar, inWC, mmWC
Flow units (select via menu):
Volume: m3/s, m3/hr, cfm, l/s
Velocity: m/s, ft/min
Measuring element:
MEMS
Environment:
Operating temperature: 10...50 °C
Storage temperature: -20...70 °C
Humidity: 0 to 95 % rH, non condensing

Physical
Dimensions:
Case: 102.0 x 71.5 x 36.0 mm
Weight:
150 g
Mounting:
2 each 4.3 mm screw holes, one slotted
Materials:
Case: ABS
Lid: PC
Duct connectors: ABS
Tubing: PVC
Protection standard:
IP54
Display
2-line display (12 characters/line)
Line 1: Volume or velocity measurement
Line 2: Pressure measurement
Size: 46.0 x 14.5 mm
Electrical connections:
9 VDC battery connector
Pressure fittings
Male ø 5.0 mm and 6.3 mm

Electrical
Current consumption:
~20 mA on active mode

Conformance
Meets requirements for CE marking:
EMC Directive 2014/30/EU
RoHS Directive 2011/65/EU
WEEE Directive 2012/19/EU

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV GL
= ISO 9001 = ISO 14001 =