

# AIR FLOW AND VELOCITY TRANSMITTERS

## DPT-FLOW-BATT

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



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: m<sup>3</sup>/s, m<sup>3</sup>/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-2500		DPT-FLOW-BATT-7000	
Measurement ranges (Pa)	0-2500 Pa		0-7000 Pa	
Description	Model	Product code	Model	Product code
Flow meter for measuring air flow in building automation systems where electricity is not available - with display	DPT-FLOW-Batt-2500-D	102.002.029	DPT-FLOW-Batt-7000-D	102.006.031

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### SPECIFICATIONS

#### Performance

Accuracy (at applied pressure):

±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: m<sup>3</sup>/s, m<sup>3</sup>/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 2002/95/EY

