

# 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

	<b>DPT-FLOW-BATT-7000</b>	
<b>Measurement ranges (Pa)</b>	0-7000 Pa	
<b>Description</b>	<b>Model</b>	<b>Product code</b>
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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## DPT-FLOW-BATT

### 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: 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 2011/65/EU

WEEE Directive 2012/19/EU

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

