# HK INSTRUMENTS

# 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: 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

# AIRFLOW AND VELOCITY TRANSMITTERS **DPT-FLOW-BATT**

# **SPECIFICATIONS**

#### Performance

**Response time:** 

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

### 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 =





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