

# FLOW TRANSMITTER FOR HVAC SYSTEMS



**IDEAL PRODUCT FOR  
MEASURING THE FLOW  
RATE BOTH ON CENTRIFUGAL  
FANS AND IN A DUCT SYSTEM**

## DPT-FLOW

DPT-FLOW is a flow transmitter that provides an easy way to measure the flow rate on centrifugal fans or in a duct system. One device is suitable for a range of fan types. It can also be used with several different measurement probes such as FLOXACT™ or pitot tube, and air dampers.

## USAGE

The DPT-FLOW can be used to measure the air flow on centrifugal fans or as a transmitter to regulate the air flow in a duct or on the selected fan or blower. It can also be used in a duct system or in air-handling units as an on-site display for flow.

## APPLICATIONS

The DPT-FLOW is an ideal instrument for air flow monitoring and control, and fan and blower control.

## TECHNICAL DETAILS

Accuracy (from applied pressure): Pressure < 125 Pa = 1 % + ±2 Pa  
(models 1000 and 2000) Pressure > 125 Pa = 1 % + ±1 Pa

Accuracy (from applied pressure): Pressure < 125 Pa = 1.5 % + ±2 Pa  
(models 5000 and 7000) Pressure > 125 Pa = 1.5 % + ±1 Pa

Zero point calibration: automatic with autozero element (-AZ) or by pushbutton

Measuring units:

Pressure: Pa, kPa, mbar, inchWC, mmWC, psi  
Flow: m³/s, m³/hr, cfm, l/s, m/s, ft/min

Supply voltage:

24 VAC ±10 % / 24 VDC ±10 %

Power consumption:

< 1.0 W

Output signals for pressure and air flow (selectable by jumper):  
0...10 VDC, Load R minimum 1 kΩ or  
4...20 mA, maximum load 500 Ω

Operating temperature: -10...+50 °C (with autozero calibration -5...+50 °C)

Response time: 1...20 s

Protection standard: IP54

Calculation formula:  $V = k * \sqrt{\Delta P(Pa)}$

**ALSO USABLE WITH  
MEASUREMENT PROBES  
SUCH AS FLOXACT™,  
PITOT TUBES, AND  
AIR DAMPERS**

## DPT-FLOW

Example: DPT-Flow-2000-AZ-D	Product series DPT-Flow	Model type Flow transmitter for HVAC systems
		Model type Analog outputs
		Measuring ranges (Pa) -1000 0...1000 -2000 0...2000 -5000 0...5000 -7000 0...7000
		Zero point calibration -AZ With autozero calibration Standard with pushbutton manual zero point calibration
		Display -D With display
Model	DPT-Flow	-2000 -AZ -D

## PRE-PROGRAMMED FAN MANUFACTURERS

Fläkt Woods, Rosenberg, Nicotra Gebhardt, Comefri, Ziehl-Abegg, ebm-papst

The fan only needs to have a pressure tap/port to which the DPT-Flow can be connected