

## DIFFERENTIAL PRESSURE TRANSMITTERS DPT-DUAL SERIES



Field adjustable, multi-range differential pressure transmitter with two pressure sensors for air

DPT-Dual series differential pressure transmitters are engineered for building automation in the HVAC/R industry. Technologically advanced transmitter, measuring static and differential pressure from two different points, with field selectable units, range and output, all in a single device.

### DPT-Dual series devices include:

- Multiple measurement units, field selectable via jumper, including: Pa, kPa, mbar, inchWC, mmWC.
- 8 field selectable measurement ranges, unidirectional or bi-directional, selectable via jumper (see Model Summary).
- Proportional output options including: voltage (2x 0...5/10 V), selectable via jumper.



### DPT-Dual series device options offer:

- Backlit display

## SIMILAR PRODUCTS

- DPT-2W series differential pressure transmitters with 4–20 mA 2-wire configuration
- DPT-R8 series 8-range differential pressure transmitters
- DPT-MOD series differential pressure transmitters with Modbus configuration
- DPI series electronic differential pressure switches
- PS series mechanical differential pressure switches
- DPT-FLOW series airflow transmitters

## APPLICATIONS

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

- fan, blower and filter monitoring
- pressure and flow monitoring
- valve and damper control

## MODEL SUMMARY

Measurement ranges (Pa) (field selectable via jumper) (For optional units, see Specifications)	DPT-Dual-2500		DPT-Dual-7000	
	±100, 100, 250, 500 Pa 1000, 1500, 2000, 2500 Pa		1000, 1500, 2000, 2500 Pa 3000, 4000, 5000, 7000 Pa	
Description	Model	Product code	Model	Product code
Multi-range differential pressure transmitter with two pressure sensors	DPT-Dual-2500	120.007.001	DPT-Dual-7000	120.016.001
- with display	DPT-Dual-2500-D	120.007.002	DPT-Dual-7000-D	120.016.002

# DIFFERENTIAL PRESSURE TRANSMITTERS

## DPT-DUAL SERIES

### SPECIFICATIONS

#### Performance

##### Accuracy (from applied pressure):

Model 2500:

Pressure < 125 Pa = 1 % +  $\pm 2$  Pa

Pressure > 125 Pa = 1 % +  $\pm 1$  Pa

Model 7000:

Pressure < 125 Pa = 1.5 % +  $\pm 2$  Pa

Pressure > 125 Pa = 1.5 % +  $\pm 1$  Pa

(including: general accuracy, linearity, hysteresis, long term stability, and repetition error)

##### Overpressure:

Proof pressure: 25 kPa

Burst pressure: 30 kPa

##### Zero point calibration:

Manual pushbutton

##### Response time:

4.0 s or 0.8 s, selectable via jumper

#### Technical Specifications

##### Media compatibility:

Dry air or non-aggressive gases

##### Measuring units:

Pa, kPa, mbar, inchWC, mmWC, selectable via jumper

##### Measuring element:

MEMS, no flow-through

##### Environment:

Operating temperature: -20...+50 °C

Temperature compensated range 0...+50°C

Storage temperature: -40...+70 °C

Humidity: 0 to 95 % rH, non condensing

#### Physical

##### Dimensions:

Case: 102.0 x 71.5 x 36.0 mm

##### Weight:

150 g, with accessories 290 g

##### Mounting:

2 each 4.3 mm screw holes, one slotted

##### Materials:

Case: ABS

Lid: PC

Pressure inlets: Brass

Duct connectors: ABS

Tubing: PVC

##### Protection standard:

IP54

##### Display (Optional)

2-line display (12 characters/line)

Line 1: active measurement, inlet A

Line 2: active measurement, inlet B

##### Electrical connections:

4 spring loaded terminals, max 1.5 mm<sup>2</sup>

Wire: 0.2-1.5 mm<sup>2</sup> (12-24 AWG)

Cable entry: M20

##### Pressure fittings:

Male  $\varnothing$  5.0 mm and 6.3 mm

#### Electrical

##### Voltage:

Circuit: 3-wire (V Out, 24 V, GND)

Input: 24 VAC or VDC,  $\pm 10$  %

Output: 2x 0...5/10V (selectable via jumper)

Power consumption: <1.0 W

Resistance minimum: 1 k $\Omega$

#### 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 =



### HOW TO GENERATE A MODEL?

Example:	Product Series			
	DPT-Dual-2500-D	DPT-Dual	Differential pressure transmitter with two pressure sensors	
		Highest available measurement range		
-2500		0...2500 Pa		
-7000		0...7000 Pa		
		Display		
	-D	With display		
		Without display		
Model	DPT-Dual	-2500	-D	