

## 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. The most technologically advanced transmitters on the market, 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, mbar, inchWC, mmWC, psi.
- 8 field selectable measurement ranges, unidirectional or bi-directional, selectable via jumper, (see Model Summary).
- Proportional output options including: voltage (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
- pressure monitoring in cleanrooms

### MODEL SUMMARY

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

# DIFFERENTIAL PRESSURE TRANSMITTERS

## DPT-Dual Series

Differential pressure transmitter with two pressure sensors

### SPECIFICATIONS

#### Performance

**Accuracy (from applied pressure):**

±1,5 % + 1 Pa

(including: 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

Burst pressure: 30 kPa

**Zero point calibration:**

Automatic autozero or 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, mbar, inchWC, mmWC, psi, selectable via jumper

**Measuring element:**

Piezoresistive

**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, 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: 12–24 AWG (0.2–1.5 mm<sup>2</sup>)

Cable entry: M20

**Pressure fittings:**

Male Ø 5.0 mm and 6.3 mm

#### Electrical

**Voltage:**

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

Input: 24 VAC or VDC, ±10 %

Output: 0–5/10V

Power consumption: <1.0 W

Resistance minimum: 1 kΩ

#### Conformance

Meets requirements for CE marking:

EMC directive 2004/108/EC

RoHS Directive 2002/95/EC



### How to generate a model?

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