



DPTA25

## DPTA (D), DPTAQ (D)

Differential pressure transmitters, piezoresistive, for gaseous, non-aggressive media

DPTA series differential pressure transmitters are used to monitor gaseous, non-aggressive media.

Possible applications include:

- Air-conditioning and ventilation systems
- Building automation
- Environmental protection
- Fan and ventilation control
- Valve and shutter control
- Filter and fan monitoring

SIL1 according IEC 61508-2

### Technical data

<b>Pressure media</b>	Air, and non-combustible and non-aggressive gases.
<b>Pressure connection</b>	Plastic connection piece with 6 mm external diameter for measuring hose with 5 mm internal diameter. Connector P 1 for higher pressure, P 2 for lower pressure.
<b>Cable entry / electrical connection</b>	M 20 x 1.5, screw terminals for wires and leads with conductor cross-section up to 5–10 mm <sup>2</sup> .
<b>Degree of protection according to DIN 40050</b>	IP 54 with cover, IP 00 without cover
<b>Mounting</b>	Any mounting position possible, with screws supplied
<b>Materials</b>	Transmitter housing and pressure connection P2 made of ABS, light grey. Fastening element with pressure connection P1 made of POM, white.
<b>Repetition accuracy</b>	< ± 0.2% of final value
<b>Linearity and switching differential factor</b>	< ± 1% of end value
<b>Response time</b>	switchable 100 ms/1sec
<b>Medium and ambient temperature</b>	0°C to +50°C
<b>Permitted air humidity</b>	0–95% non-condensing
<b>Operating voltage</b>	22...30 V AC/DC
<b>Power consumption</b>	Max. 1 W
<b>Output signal</b>	0–10 V, short-circuit-proof to ground 4–20 mA, short-circuit-proof ≤ 30 mA
<b>Housing dimensions and weight</b>	Diameter 85 mm x 58 mm, 130 g
<b>Standards and conformity</b>	EN 60770, EN 61326
<b>Supplied accessories:</b>	2 m silicone hose, 2 connection pieces with fastening screws, 2 self-tapping screws for fastening the housing

Type	Selectable pressure range by rotary switch Pa
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**8-range differential pressure transmitter with automatic re-zeroing 3-wire version**  
without digital display, output signal 0-10 V and 4-20 mA current consumption max. 160 mA

<b>DPTAQ8</b>	-50/+50, -100/+100, /-250/+250, -500/+500, 0–100, 0–250, 0–500, 0–1000
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with digital display, output signal 0-10 V and 4-20 mA current consumption max. 210 mA

<b>DPTAQ8D</b>	-50/+50, -100/+100, /-250/+250, -500/+500, 0–100, 0–250, 0–500, 0–1000
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**Differential pressure transmitter with automatic zeroing 3-wire version**

Type	Default operating range in Pa	Operating range extended by jumpers in Pa
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without digital display, output signal 0-10 V and 4-20 mA current consumption max. 160 mA

<b>DPTA25S</b>	-25/+25	not possible
<b>DPTA25</b>	0–25	0–50

with digital display, output signal 0-10 V and 4-20 mA current consumption max. 210 mA

<b>DPTA25SD</b>	-25/+25	not possible
<b>DPTA25D</b>	0–25	0–50

## Typeseries DPTA (D), DPTAQ (D) and DPTE

Dimensioned drawings

