



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

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

DPTAQ8	-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

DPTAQ8D	-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

DPTA25S	-25/+25	not possible
DPTA25	0–25	0–50

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

DPTA25SD	-25/+25	not possible
DPTA25D	0–25	0–50

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

Dimensioned drawings

