



DPTE1000

## DPTE (D)

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

DPTE 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>Long-term stability in % FS/year</b>	-50 Pa - 1000 Pa ≤ 2.5; 1000/2500 Pa ≤ 1.5
<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>	18...30 V AC/DC, 18...30 V DC (2-wire)
<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	Default operating range in Pa	Operating range extended by jumpers in Pa
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### Differential pressure transmitter, 3-wire

without digital display, output signal 0-10 V und 4-20 mA current consumption max. 60 mA

DPTE50S	-50/+50	not possible
DPTE100S	-100/+100	not possible
DPTE500S	-500/+500	not possible
DPTE1000S	-1000/+1000	not possible
DPTE100	0–100	0–250
DPTE250	0–250	0–500
DPTE500	0–500	0–1000
DPTE1000	0–1000	0–2500
DPTE5000	0–5000	0–10000

with digital display, output signal 0-10 V und 4-20 mA current consumption max. 110 mA

DPTE50SD	-50/+50	not possible
DPTE100SD	-100/+100	not possible
DPTE500SD	-500/+500	not possible
DPTE1000SD	-1000/+1000	not possible
DPTE100D	0–100	0–250
DPTE250D	0–250	0–500
DPTE500D	0–500	0–1000
DPTE1000D	0–1000	0–2500
DPTE5000D	0–5000	0–10000

Type	Default operating range in Pa	Operating range extended by jumpers in Pa
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### Differential pressure transmitter, 2-wire

without digital display, output signal 4-20 mA current consumption max. 21 mA

DPTE52S	-50/+50	not possible
DPTE102S	-100/+100	not possible
DPTE102	0–100	0–250
DPTE252	0–250	0–500
DPTE502	0–500	0–1000
DPTE1002	0–1000	0–2500
DPTE5002	0–5000	0–10000

**Legend:** DPT: Differential Pressure Transmitter; E: Standardtype; A: automatic re-zeroing; Q8: Multirange variant, selectable via rotary switch; S: Symmetrical +/- pressure range; D: Digital display LED red