

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 mm².

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 < Linearity and <

 $y < \pm 0.2\%$ of final value $< \pm 1\%$ of end value

switching differetial factor Response time switch

switchable 100 ms/1sec

Medium and ambient temperature

0°C to +50°C

Permitted air humidity Operating voltage

22...30 V AC/DC

0-95% non-condensing

Operating voltage 22...30 V Power consumption Max. 1 W

0-10 V, short-circuit-

Output signal

proof to ground 4–20 mA, short-circuitproof ≤ 30 mA

Housing dimensions Diameter

and weight Standards and 85 mm x 58 mm, 130 g EN 60770, EN 61326

conformity

Supplied 2 m silicone hose, accessories: 2 connection pieces with fastening screws,

2 self-tapping screws for fastening the housing

Type Selectable pressure range

by rotary switch

Pa

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

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

Differential pressure transmitter with automatic zeroing 3-wire version

Type	Default	Operating range	
	operating	extended by	
	range in Pa	jumpers in Pa	

without digital display, output signal 0-10 V and 4-20 mA current consumption max. 160 mA

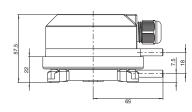
DPTA25S	-25/+25	not possible	
DPTA25	0-25	0-50	

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



CE

