

Air differential pressure transmitter

Description

The differential pressure transmitter serie is used to measure differential pressure, overpressure and vacuum of gaseous, non-aggressive media. It provides 2 pressure ranges and 2 output signals, which are selectable by jumper. Possible fields of application are building automation and air conditioning systems, overpressure measurement in clean rooms and laboratories, measurement of constant pressure in VAV applications, dynamic filter and ventilator monitoring.

Technical specifications

Medium	Air, non-combustible and non-aggressive gases
Measurement range	See schedule
Linearity and hysteresis error	$\leq \pm 1\%$ of FS
Repetition accuracy	$\leq \pm 0.2\%$ of FS
Response time	0,1 s or 1 s, selectable by jumper
Position dependence	$\leq \pm 0,02\%$ of FS/g
Long term stability	$< \pm 0,5\%$ final value/year
Offset calibration	The output signal can be calibrated to zero by pressing the M key.
Supply voltage	18...30 V AC / 16...32 V DC
Output signal	3-wire connection, with switching output. The factory setting is 0-10 V DC, but can be changed to 4-20 mA by removing the jumper. 2-wire connection 4-20 mA version is available upon request.
Switching output	npn transistor output for max. 30 V DC/100 mA
Electrical connection	Screw terminal block for wires and strands up to 1,5 mm ²
Display, optional	LED, 4 digits
Housing material	Housing with process connection P2 (-) Base part with process connection P1 (+)
Cable conduit	M16x1,5 connection made of polyamide
Housing dimensions	approx. Ø 85 x 58 mm
Weight	approx. 150 g
Protection class	IP54
Working humidity	0...95% RH, non-condensing
Working temperature	0...+50°C
Storage temperature	-40...+70°C
Accessories	Connection set (PVC-hose 2 m Ø 6 with 2 ABS nippels and 4 screws) included and snap-on plastic brackets optionally
Installation	Screw fastening
Installation position	any
Standards	CE-conformity, RoHS

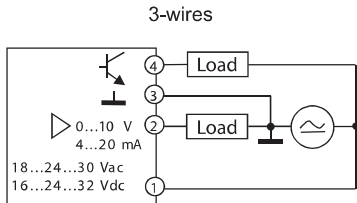


Models	Range	Output	Display
ECO-DPT250	0-100/0-250 Pa	4-20mA/0-10V	No
ECO-DPT500	0-250/0-500 Pa	4-20mA/0-10V	No
ECO-DPT1000	0-500/0-1000 Pa	4-20mA/0-10V	No
ECO-DPT2500	0-1000/0-2500 Pa	4-20mA/0-10V	No
ECO-DPT250-D	0-100/0-250 Pa	4-20mA/0-10V	Yes
ECO-DPT500-D	0-250/0-500 Pa	4-20mA/0-10V	Yes
ECO-DPT1000-D	0-500/0-1000 Pa	4-20mA/0-10V	Yes
ECO-DPT2500-D	0-1000/0-2500 Pa	4-20mA/0-10V	Yes
ECO-DPT250E	0-250 Pa	4-20mA	No
ECO-DPT1000E	0-1000 Pa	4-20mA	No



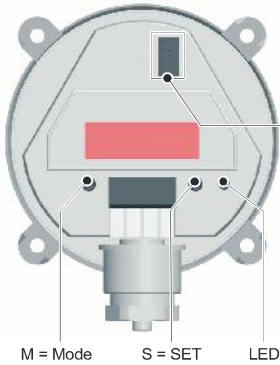
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Electrical wirings



4	SA	Switching output, npn
3	GO	Ground G N D
2	Y	Output signal 0 ... 10V / 4 ... 20 mA
1	G	Supply voltage 24 VAC / VDC

Setting



	Jumper (switched) ■	Aperto (open) □
Range pressione (Pressure range)	Bassa (low)	Alta (high)
Risposta (Response)	Lenta (slow)	Veloce (fast)
Funzionamento (Mode)	Lineare (linear)	Quadratico (square root)
Segnale di uscita (Output signal)	0...10 V	4...20 mA

Dimensions (mm)

