DIFFERENTIAL PRESSURE TRANSMITTER DPT-3wire EIGHT RANGE MODEL

Model summary

Each device has 8 jumper selectable measuring ranges. Each device is individually temperature compensated.

Model: DPT2500 - R8 (-D -AZ)
DPT7000 - R8 (-D -AZ)

- R8 for 8 measuring range
- D for display
- AZ for autozero element

long term stability typical 1 year

 $\leq \pm 1$ Pa with AZ,

≤ ± 8 Pa without AZ; model 2500

≤ ± 24 Pa without AZ; model 7000

Model 2500	Model 7000
1410del 2300	1410aei 7000
-100+100 Pa	01000 Pa
0100 Pa	01500 Pa
0250 Pa	02000 Pa
0500 Pa	02500 Pa
01000 Pa	03000 Pa
01500 Pa	04000 Pa
02000 Pa	05000 Pa
02500 Pa	07000 Pa

The Differential Pressure Transmitter is delivered individually packed with standard accessories (see accessories).

Technical data

Response Time 0.8 / 4 s selectable by push button (see instructions below)

Bursting pressure 30 kPa (model 2500) 80 kPa (Model 7000)

Suitable media Air and non-aggressive gases

Measuring element Piezoresistive

Accuracy from range $\pm 1,5\%$ or $(\pm 6Pa < 250 Pa)$

(including: general accuracy, temperature drift, linearity, hysteresis and repetition error)

Electrical interface Supply voltage 24 VAC or VDC

(3-wire) Max. tolerance $\pm 10\%$

Power consumption < 1.0 W (< 1.5 W with Iout 20mA)Output signal 0...10 VDC, Load R minimum $1 \text{k} \Omega$ or

4...20 mA, maximum load 500Ω

Materials Housing ABS

Cover PC
Pressure connections ABS
Duct connectors ABS
Tubing PVC, soft

Connections Electrical connections 4 screw terminals, max 1.5 mm²

Cable entry M16

Pressure connections Male \varnothing 5,0 mm and 6,3 mm

Weight 150 grams, with accessories 290 grams

Dimensions 90,0 x 71,5 x 36,0 mm

General ambient condition

Temperature range

Operation -10...+50°C (-5...+50°C for -AZ model)

Storage -20...+70°C Ambient humidity 0 to 95% RH

Safety Protection standard IP54

Conformance Meets the requirements for CE marking:

EMC directive 89/336/EEC Rohs Directive 2002/95/EY

Accessories Standard accessories:

o 2 fixing screws

2 plastic duct connectors
2 m tube Ø 4 / 7 mm
Optional accessories:

Metallic duct connectors

Zero-point adjustment

Note! Supply voltage must be connected one hour before the 0-point adjustment is carried out.

- 1) Loose both tubes from the pressure inlets + and -
- 2) Push zero button > 4 seconds and the red led turns ON.
- 3) Wait until LED turns off and then install tubes again to the pressure inlets

It is recommended to adjust the zero point every 12 months during normal operation

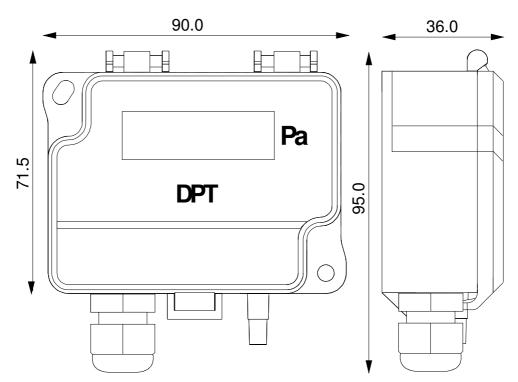
* If the transmitter is equipped with automatic zero element the manual push button adjustment is not required.

Optional auto zero element *

Optional auto zero element makes the DPT transmitter maintenance free for periodical push button zeroing. Element automatically adjusts the transmitters zero point from time to time, this eliminates the zero point long term drift of the piezoresistive sensing element.

Zero point adjustment is carried out every 10 minutes. During zero point adjustment the output and display values will freeze to the latest measured value. The automatic zero point adjustment takes 4 seconds.

Dimensions



Installation

