DIFFERENTIAL PRESSURE TRANSMITTER **DPT-3WIRE**



Model summary

Each device has 8 jumper selectable measuring ranges. Each device is temperature compensated. DPT250 - R8 (-AZ -D -Q -S) Model: DPT2500 - R8 (-AZ -D -Q)

DPT7000 - R8 (-AZ -D -Q)

- R8 for 8 measuring range
- D for display
- Q for square root output (output is flow linear instead of pressure linear)
- AZ for Autozero element
- S with span point calibration

Model 250	Model 2500	Model 7000
025 Pa	-100+100 Pa	01000 Pa
050 Pa	0100 Pa	01500 Pa
0100 Pa	0250 Pa	02000 Pa
0250 Pa	0500 Pa	02500 Pa
-25+25 Pa	01000 Pa	03000 Pa
-50+50 Pa	01500 Pa	04000 Pa
-100+100 Pa	02000 Pa	05000 Pa
-150+150 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 iumper

Measuring unit: Selectable by jumper (Pa, kPa, mbar, inchWC, mmWC, psi) Suitable media: Air and non-aggressive gases

Measuring element: Piezoresistive Max pressure: 400 kPa

Accuracy (from applied pressure): ±1,5% or (±3Pa <250 Pa) (including: general accuracy, temperature drift, linearity, hysteresis, long term stability and repetition error)

Electrical interface:

- Supply voltage: 24 VAC or VDC ± 10% Power consumption: < 1.0 W (<1.5W with lout 20mA) Output signal: 0...10 VDC, Load R minimum $1k\Omega$ 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 Ø 5,0 mm and 6.3 mm Weight: 150 g, with accessories 290 g 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
- Safetv:
- Protection standard: IP54
- · Conformance: Meets the requirements for CE

Optional auto zero element *

transmitter maintenance free for periodical push

button zeroing. Element automatically adjusts the

Optional auto zero element makes the DPT

transmitters zero point from time to time, this

eliminates the zero point long term drift of the

Zero point adjustment is carried out every 10

and display values will freeze to the latest

measured value. The automatic zero point

minutes. During zero point adjustment the output

piezoresistive sensing element.

adjustment takes 4 seconds.

- marking:
- EMC directive 2004/108/EY
- Rohs Directive 2002/95/EY

Accessories

Standard accessories:

- 2 fixing screws
- 2 plastic duct connectors
- 2 m tube Ø 4 / 7 mm

Optional accessories:

* Metallic duct connector

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 +

2) Push zero button until the red led turns ON. 3) Wait until LED turns off and then install tubes again to the pressure inlets

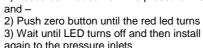
It is recommended to adjust the zero point every 12 months during normal operation

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

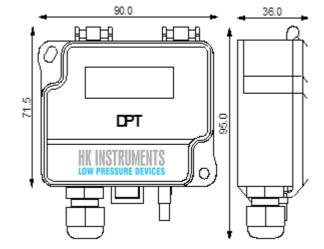


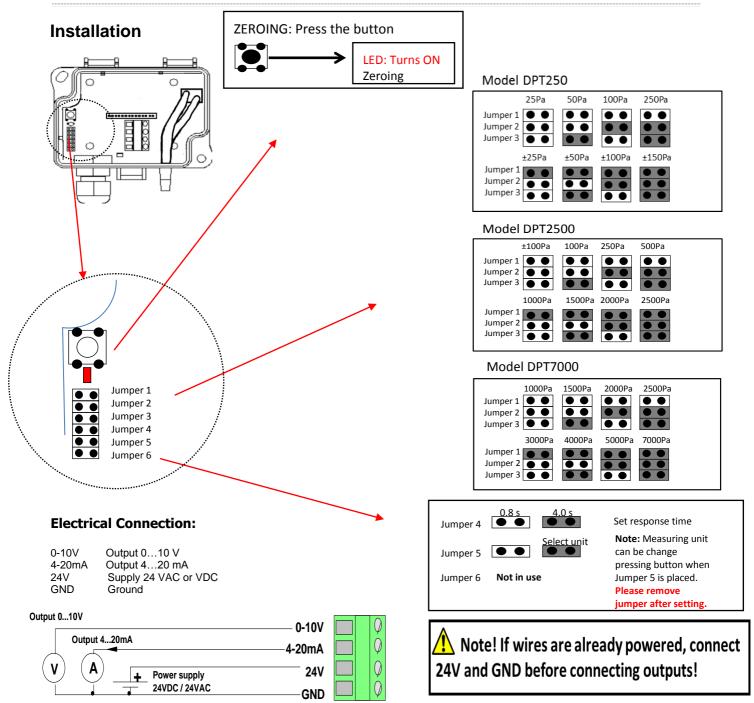
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User-friendly measuring devices