Zero-point adjustment
Note! Supply voltage must be connected one hour before the zero-point adjustment is carried out.
1) Loose both tubes from the pressure inlets + and –
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.

Optional auto zero element
AZ-calibration is a function in the form of an automatic zeroing circuit built into the PCB. The AZ-calibration electronically adjusts the transmitter zero at predetermined time intervals (every 10 minutes). The AZ-calibration eliminates all output signal drift due to thermal, electronic or mechanical effects, as well as the need for technicians to remove high and low pressure tubes when performing initial or periodic transmitter zero point calibration.

The AZ adjustment takes 4 seconds. To avoid conflict with the BAS system, the output and display values will freeze to the latest measured value, after which the device returns to its normal measuring mode. Transmitters equipped with the AZ-calibration are virtually maintenance free.

<table>
<thead>
<tr>
<th>Measuring Ranges</th>
<th>Model DPT250-R8-3W</th>
<th>Model DPT2500-R8-3W</th>
<th>Model DPT7000-R8-3W</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-25 Pa</td>
<td>100-0-100 Pa</td>
<td>0-1000 Pa</td>
<td></td>
</tr>
<tr>
<td>0-50 Pa</td>
<td>0-100 Pa</td>
<td>0-1500 Pa</td>
<td></td>
</tr>
<tr>
<td>0-100 Pa</td>
<td>0-250 Pa</td>
<td>0-2000 Pa</td>
<td></td>
</tr>
<tr>
<td>0-250 Pa</td>
<td>0-500 Pa</td>
<td>0-2500 Pa</td>
<td></td>
</tr>
<tr>
<td>25-0-25Pa</td>
<td>0-1000 Pa</td>
<td>0-3000 Pa</td>
<td></td>
</tr>
<tr>
<td>50-0-50 Pa</td>
<td>0-1500 Pa</td>
<td>0-4000 Pa</td>
<td></td>
</tr>
<tr>
<td>100-0-100 Pa</td>
<td>0-2000 Pa</td>
<td>0-5000 Pa</td>
<td></td>
</tr>
<tr>
<td>150-0-150 Pa</td>
<td>0-2500 Pa</td>
<td>0-7000 Pa</td>
<td></td>
</tr>
</tbody>
</table>

Add - D to end of Model with Display For e.g. DPT250-R8-3W-D
Add - AZ to end of Models with Auto-Zero facility For e.g. DPT250-R8-3W-AZ
Add - AZ - D to end of Models with Display and Auto-Zero facility For e.g. DPT250-R8-3W-AZ-D

Technical data
Service: Air and non-aggressive gases
Measuring element: Piezoresistive
Accuracy: ±0.8%, or (±1% <250 Pa)
Measuring unit: Selectable by jumper (Pa, kPa, mbar, inchWC, mmWC, psi)
Response Time: 0.8 / 4 s selectable by jumper
Max pressure: 400 kPa
Electrical interface:
• Supply voltage: 24 VAC or VDC ± 10%
• Power consumption: <1.0 W (<1.5W with Iout 20mA)
Output signal:
0…10 VDC, Load R minimum 1kΩ or 4…20 mA, maximum load 500Ω
Materials:
• Housing: ABS
• Cover: PC
• Pressure connections: ABS
Connections:
• Electrical connections: 4 screw terminals, max 1.5 mm²
• Cable entry: M16
• Pressure connections: Male 5.0 mm and 6.3 mm
Weight: 150 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
Safety:
• Protection standard: IP54
• Conformance: Meets the requirements for CE marking:
  - EMC directive 2004/108/ECY
  - Rohs Directive 2002/95/ECY
Optional Accessories:
• Plastic Pressure Tips
• 2m Tubes
Installation

ZEROING: Press the button

LED: Turns ON Zeroing

Model DPT250

<table>
<thead>
<tr>
<th>Jumper 1</th>
<th>Jumper 2</th>
<th>Jumper 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>±25Pa</td>
<td>±50Pa</td>
<td>±75Pa</td>
</tr>
<tr>
<td>±100Pa</td>
<td>±150Pa</td>
<td></td>
</tr>
</tbody>
</table>

Model DPT2500

<table>
<thead>
<tr>
<th>Jumper 1</th>
<th>Jumper 2</th>
<th>Jumper 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>±100Pa</td>
<td>±200Pa</td>
<td>±300Pa</td>
</tr>
<tr>
<td>±500Pa</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Model DPT7000

<table>
<thead>
<tr>
<th>Jumper 1</th>
<th>Jumper 2</th>
<th>Jumper 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>±100Pa</td>
<td>±200Pa</td>
<td>±300Pa</td>
</tr>
<tr>
<td>±500Pa</td>
<td>±700Pa</td>
<td></td>
</tr>
</tbody>
</table>

Electrical Connection:

- 0-10V: Output 0...10 V
- 4-20mA: Output 4...20 mA
- 24V: Supply 24 VAC or VDC
- GND: Ground

Note:
- Output 0...10V
- 4-20mA
- Power supply 24VDC / 24VAC
- GND

Set response time

Note: Measuring unit can be changed pressing button when Jumper 5 is placed. Please remove jumper after setting.

Warning: If wires are already powered, connect 24V and GND before connecting outputs!