

Differential pressure transmitter

TST-DD 10.0... / 20.0...



Output signal 4 ... 20 mA or 0 ... 10 V DC
For air and non-aggressive gases



Applications

- Ventilation technology
- Pneumatic
- Process technology applications

Description

- Measurement of differential pressure values
- Switchable measuring ranges
- Bar- or pascal-style display
- Equating to zero possible
- Available with or without display
- With switching function (transistor or relay)
- With multi-function output (4 ... 20 mA or 0 ... 10 V and transistor)
- Total measurement error at RT $\leq 2,5$ % FS (optional 1 % FS)

Type designation

TST-DD 10.0... (4 ... 20 mA / 2-wire)

TST-DD 20.0... (0 ... 10 V DC / 3-wire)

Measuring ranges (switchable by internal bridges)

| Rated differential pressure (mbar) | Factor 0,5 | Factor 2 | max. over-pressure (mbar) |
|------------------------------------|------------|----------|---------------------------|
| 2 | 1 | 4 | 20 |
| 5 | 2,5 | 10 | 100 |
| 25 | 12,5 | 50 | 250 |
| 100 | 50 | 200 | 500 |

Other measuring ranges upon request (vacuum available)

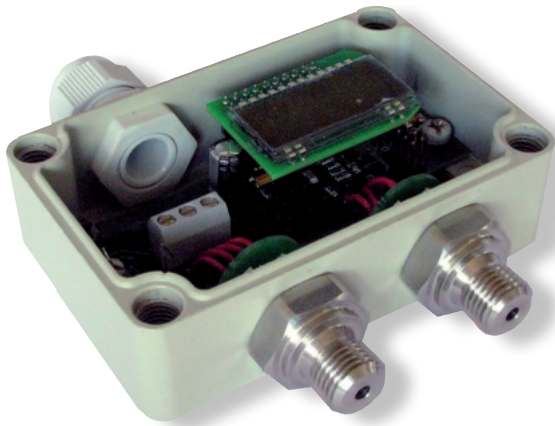
| Technical data | Type: TST-DD 10.0... | Type: TST-DD 20.0... |
|-------------------------------------|----------------------------------|----------------------------------|
| Output signal | 4 ... 20 mA (2-wire) | 0 ... 10 V DC (3-wire) |
| Operating voltage U_B | 12 ... 30 V DC | 14 ... 30 V DC / 24 V AC |
| Linearity deviation | $\pm 1,0$ % FS | $\pm 1,0$ FS |
| Electric connection | Screw terminal inside | Screw terminal inside |
| Process connection | Hose connector 3,5 mm / 5,5 mm | Hose connector 3,5 mm / 5,5 mm |
| Media temperature | 0 ... +50 °C | 0 ... +50 °C |
| Ambient temperature | 0 ... +50 °C | 0 ... +50 °C |
| Protection class | IP 65 | IP 65 |
| Dimensions (height x width x depth) | 36 x 65 x 51 mm | 36 x 65 x 51 mm |
| Total measurement error at RT | $\pm 2,5$ % FS (optional 1 % FS) | $\pm 2,5$ % FS (optional 1 % FS) |

Differential pressure transmitter

TST-DDM 10.0... / 20.0...



Output signal 4 ... 20 mA or 0 ... 10 V DC
For water, oil, various liquids and gases



Applications

- Water technology
- Process technology
- Plant engineering and automation technology
- General industrial applications

Description

- Pressure range stages from 0,4 ... 1000 bar
- Overpressure safety 1,2 x nominal value
- Optionally differential pressure from 1:2 to 1:15 of nominal pressure value (please state when ordering)
- Output signal scalable to double or half differential pressure range
- Process technology and water supply application
- Available with or without display
- Stainless steel fluid-wetted parts
- Equating to zero possible
- Total measurement error at RT $\leq 2,5$ % FS (optional 1 % FS)

Type designation

TST-DDM 10.0... (4 ... 20 mA / 3-wire)

TST-DDM 20.0... (0 ... 10 V DC / 3-wire)

| Technical data | Type: TST-DDM 10.0... | Type: TST-DDM 20.0... |
|-------------------------------------|--|--|
| Output signal | 4 ... 20 mA (3-wire) | 0 ... 10 V DC (3-wire) |
| Operating voltage U_B | 14 ... 30 V DC | 14 ... 30 V DC |
| Measuring range | 0,4 ... 1000 bar selectable | 0,4 ... 1000 bar selectable |
| Differential pressure | Factor 1:2 to 1:15 of nominal pressure value | Factor 1:2 to 1:15 of nominal pressure value |
| Total measurement error at RT | $\pm 2,5$ % FS | $\pm 2,5$ % FS |
| Process connection | Hose connector 3,5 mm / 5,5 mm | Hose connector 3,5 mm / 5,5 mm |
| Media temperature | -20 ... +80 °C | -20 ... +80 °C |
| Cable gland | M 16 | M 16 |
| Protection class | IP 66 | IP 66 |
| Dimensions (height x width x depth) | 45 x 100 x 65 mm | 45 x 100 x 65 mm |