

# Digital contact gauge TST-PM 82

Dry ceramic sensor  
Measuring ranges from 25 mbar ... 250 bar



## Characteristics

- 3-digit LED display
- 2 addressable transistor outputs
- Dry ceramic Sensor
- Ranges from 25 mbar ... 250 bar
- 4 (0) ... 20 mA analog output, 3-wire
- 0 ... 10 V analog output, 3-wire
- Contact output DC PNP, max. 50 mA
- Range of temperature -25 ... +80° C
- Process temperature -25 ... +100° C
- 80 mm stainless steel case
- Available with all standard process connections

## Function

The digital contact gauge TST-PM 82 measures and monitors pressure ranges from 25 mbar to 250 bar and displays the measured value. One or two threshold values can be set via the control buttons. LEDs show the switching status of the transistor outputs.

Technical data	Type: TST-PM 82
Measuring range	0 ... 25 mbar to 0 ... 250 bar
Analog output	4(0) ... 20 mA, 0 ... 10 V
Contact output	DC PNP, max. 200 mA
Accuracy	≤± 0,5% FS
Response time	200 ms
Operating voltage U <sub>B</sub>	10 ... 30 V DC, 20 mA output 16 ... 30 V DC, 10 V output
Range of temperature	-25 ... +80° C
Process temperature	-25 ... +100° C
Temperature coefficient zero point	≤ ± 0,03 % FS / K
Temperature coefficient range	≤ ± 0,02 % FS / K
Stability per year	≤ ± 0,5 % FS
Bayonet lock case	Stainless steel, 1.4301 (304) IP 67
Process connection	1.4404 (316L)
Sensor element	Ceramic AL <sub>2</sub> O <sub>3</sub> , gasket ring FKM-Viton (others on request)
Electrical connection	Connector, M12x1 (IP 67)

## Assembled cable and connection accessories (see page 176)

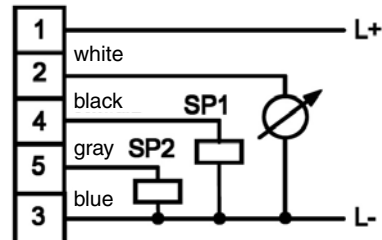


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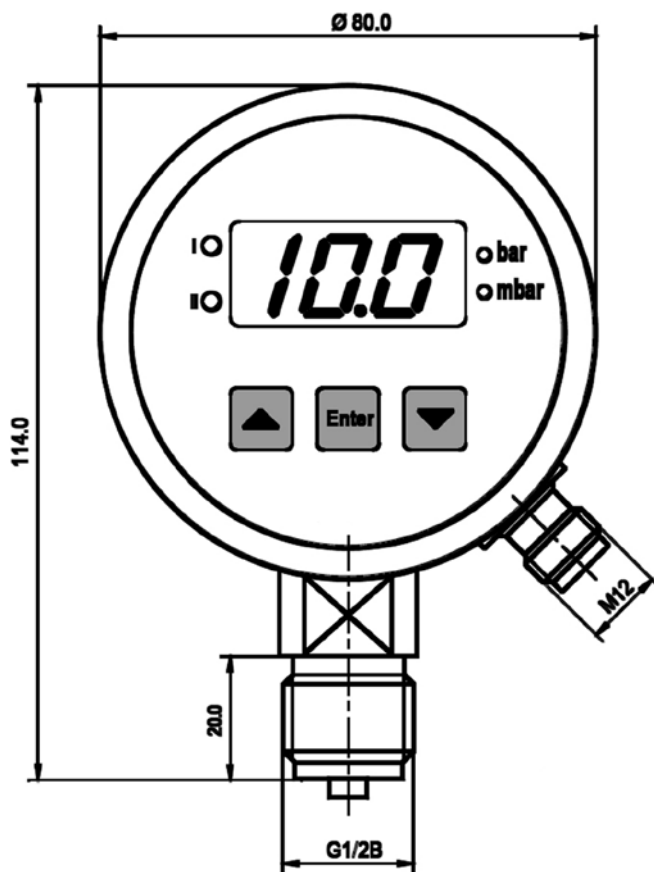
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## Electrical connections

Connector M12x1, 5-pin



## Dimensional drawing



TST-PM 82 G 1/2B DIN 16288

## Ranges

Measuring range	Overload (bar)
-20 ... 20 mbar	-0,3/4
0 ... 25 mbar	-0,3/4
0 ... 40 mbar	-0,3/4
0 ... 50 mbar	-0,3/4
0 ... 60 mbar	-0,3/4
-100 ... 100 mbar	-1/2
0 ... 100 mbar	-1/2
0 ... 160 mbar	-1/2
0 ... 200 mbar	-1/2
0 ... 250 mbar	-1/2
0 ... 400 mbar	-1/2
0 ... 500 mbar	-0,2/2
0 ... 600 mbar	-0,2/2
0 ... 1 bar	-1/4
0 ... 1,6 bar	-1/4
0 ... 2 bar	-1/4
0 ... 2,5 bar	-1/10
0 ... 4 bar	-1/10
0 ... 5 bar	-1/10
0 ... 6 bar	-1/20
0 ... 10 bar	-1/40
0 ... 10 bar	-1/105 (1) (2)
0 ... 16 bar	-1/40
0 ... 20 bar	-1/40
0 ... 25 bar	-1/100
0 ... 40 bar	-1/100
0 ... 50 bar	-1/100
0 ... 60 bar	-1/200
0 ... 100 bar	-1/200
0 ... 160 bar	-1/400
0 ... 250 bar	-1/600
-1 ... 1 bar	-1/4
-1 ... 1,5 bar	-1/4
-1 ... 3 bar	-1/10
-1 ... 5 bar	-1/10
-1 ... 9 bar	-1/40

(1) only process connection G1/2 B; (2) burst pressure 175 bar