

Melt pressure sensor / Melt pressure transmitter



Price on demand

Ratings

Type designation

S-MD-st-u-vwxy-z

Spacer Technical execution

s Connecting thread

- 1 ½ " 20 UNF 2A
- 2 M18 x 1.5

t Shaft length

- 1 152 mm rigid
- 2 250 mm rigid
- 3 318 mm rigid
- 4 152 mm rigid + 457 mm flexible capillary tubes

u Pressure range

- 50 0...50 bar
- 100 0...100 bar
- 200 0...200 bar
- 350 0...350 bar
- 400 0...400 bar
- 500 0...500 bar
- 600 0...600 bar
- 700 0...700 bar
- 800 0...800 bar
- 1000 0...1000 bar

v Transfer medium

- 1 NaK-liquid metal
- 2 Mercury

w Precision

- 1 +/- 0.5 % of final value
- 2 +/- 1 % of final value

x Sensitivity / Analogue output

- 1 1 mV/V
- 2 2 mV/V
- 3 3.33 mV/V
- 4 4 - 20 mA / 2-conductor
- 5 0 - 10 V / 4-conductor
- 6 2 - 10 V / 4-conductor
- 4.4 4 - 20 mA / 4-conductor

y Type of material of diaphragm

- 1 stainless steel, material no. 1.4545, coated with TiN ceramics
- 2 Hastelloy, material no. 2.4610, coated with TiN ceramics
- 3 Inconel, material no. 2.4668, coated with TiN ceramics
- 4 reinforced diaphragm of stainless steel, material no. 1.4545, coated with TiN ceramics
- 5 reinforced diaphragm of Inconel, material no. 2.4668, coated with TiN ceramics

z Options

- 0 **Options** are not defined.

Ratings

Model:	S-MD-xx-x-1 / S-MD-xx-x-2
Filling medium:	Mercury / Sodium- Potassium (NaK)
max. diaphragm temperature:	400°C / 550°C
Pressure range:	0 - 50 ...0 -2000 bar / 0 - 50 ...0 -700 bar
max. overload:	1.5 x measuring range up to 1000 bar 1.25 x measuring range bigger than 1000 bar
Total measuring error:	≤ 0.5 % of full scale or ≤ 1 %
Resolution:	infinite
Bridge resistance:	350 Ohm ± 3%
Supply voltage:	with all mV/V signals: max. 12 VDC with analogue output 4: 12 ... 30 VDC with analogue output 4.4: 24 VDC ± 10 %
Null balance:	± 5 % of full scale
Output signal:	1 / 2 / 3.33 mV / V ± 3% 0 (2)...10 V 4 - 20 mA
Internal calibration point:	80%
Reproducibility:	± 0.20 % of full scale / ± 0.20 % F. S.
Temperature influences at the diaphragm:	
Change of zero point:	≤ ± 0.015 % of full scale / K
Change of sensitivity:	≤ ± 0.010 % of full scale / K
Temperature influences at the measuring head:	
Change of zero point:	≤ ± 0.020 % of full scale / K / ≤ ± 0.03 % of full scale
Change of sensitivity:	Measuring range / range ≥ 100 bar 0.02 % / K Measuring range / range ≥ 50 bar 0.03 % / K