



Resistance Thermometer Type 812

Resistance thermometer (PT100) for industrial use with direct connection and connection head



D-EN-Type812-20200214

- PT100 measuring element
- Electrical output optional
- Robust design thanks to protective tubes



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General

- Resistance thermometer for industrial use
- Design B with extension tube according to DIN 43 765
- Other connecting heads see page 2

Installation

- For direct installation in the process
- Connection with fixed socket for screwing in
- The connection head can be aligned after installation.

Measurement insert

- Design according to DIN 43 762
- The measurement insert may be exchanged during operation

Measuring resistor

- PT100 according to DIN IEC 751. Other measuring resistors, e.g. PT1000 or Ni100 on request.

Accuracy

- Class A and class B according to DIN IEC 751 (also available with restricted tolerances)

Electrical connection

- The standard connection is the ceramic terminal block for 2-, 3- or 4-wire PT100. Also available with an additional head transmitter (transmitter) as additional equipment. The connection is then made via the terminals for the 2-wire power connection (4-20 mA.)

Operating temperature range

Class A and class B according to DIN IEC 751 - 200... +600 °C)

Material for protective tube and thread		
Ordering code:	F	G
Stainless steel 1.4571	0	3
Brass (max. 300 °C)	0	1

Protective tube diameter d1		
Ordering code:	H	I
6 mm	1	3
9 mm (standard)	5	6
11 mm	6	8
15 mm	7	8

Thread connections			
Ordering code		J	K
G1/2"	SW 27	0	1
G3/4"	SW 32	0	2
G1"	SW 41	0	3
NPT 1/2"	SW 27	0	4
NPT 3/4"	SW 32	0	5
M 18 x 1,5	SW 24	0	6
M 20 x 1,5	SW 27	0	7
M 27 x 2	SW 32	0	9

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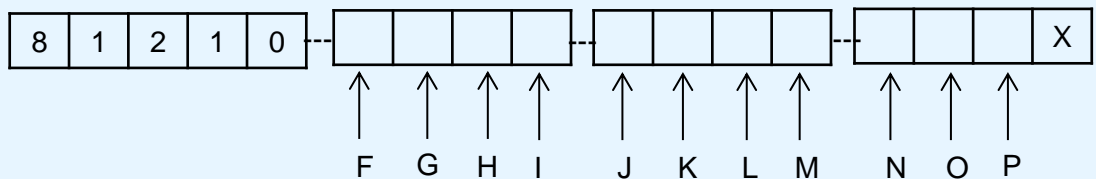
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Connecting heads		
Ordering code:	L	M
Form B	0	1
Form BUZ	0	2
Form BUZ-H	0	3
Form NS	0	4
Form GG	0	5

Electrical connection	
Ordering code	O
2-wire circuit	2
3-wire circuit	3
4-wire circuit	4
A 4-wire connection is not possible with 2x PT100.	

Transmitter 4...20 mA	
Ordering code	N
Without transmitter	0
Type KT-60 (only for BUZ-head)	2
Type KT-45	5
Type KT-45P (programmable)	6

Measuring resistor	
Ordering code	P
1 x PT100 Cl. B	1
1 x PT100 Cl. A	2
2 x PT100 Cl. B	3
2 x PT100 Cl. A	4



Ordering code:

To order, please fill in all empty spaces.

The relevant key figures for all vacancies can be found in the tables above.

Installation length: _____ mm

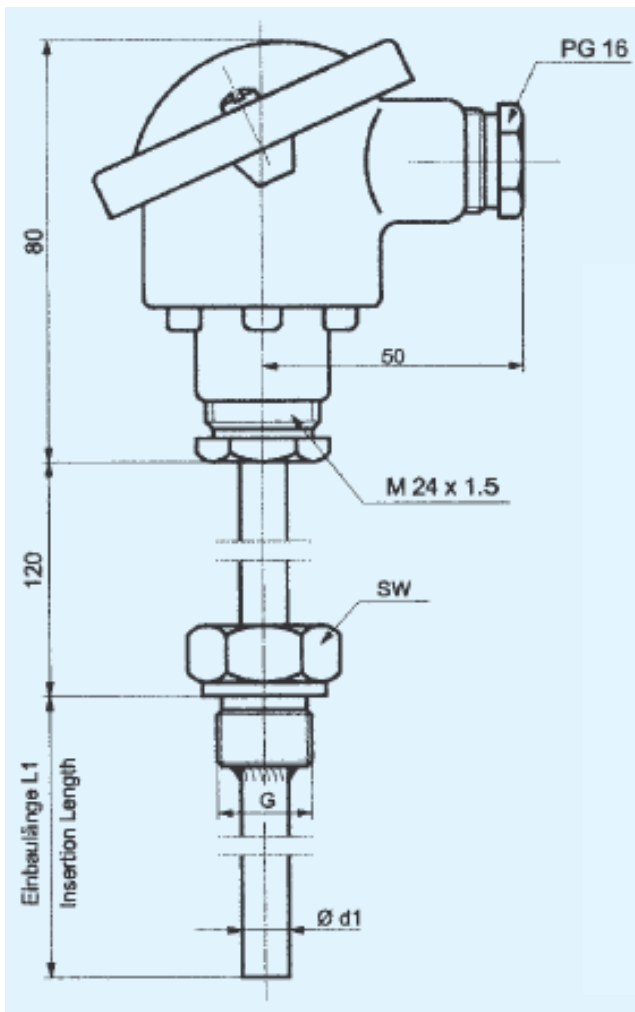
With transmitter / measuring range: _____ °C to _____ °C



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Drawing shows type with connecting head form B

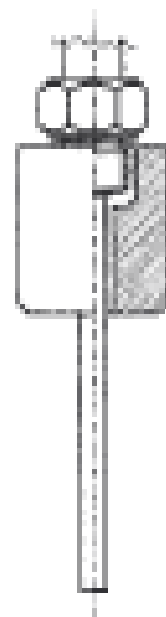


Ø d1 / protective tube	Ø d / measurement insert
6 mm	3 mm
9 mm	6 mm
11 mm	8 mm
15 mm	8 mm

Length of measurement insert: $L1 + 120 + 35$

Also available in a quick display version: only with dip tube from $\varnothing d1=9$ mm, whereby 40 mm from the end the dip tube is set down to $\varnothing 6$ mm.

Installation suggestions for resistance thermometers for screwing into the process



welding socket

Important instructions!

Technical changes and errors reserved. Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.