

## pressure-gauge type TM01



### description:

High quality pressure gauge made of stainless steel to control process temperatures. Available as analog 4 – 20mA output or Pt100 4-wire output. Convinces by high quality, reliability and precision. Optional with neck tube to protect electrical devices from high process temperatures.

### product features:

- to measure temperatures of liquid and gaseous media
- high flexibility by various sensor tube diameters and lengths
- different versions with diverse process connections
- male thread or hygiene process connection
- M12 plug included

### connection:

G 1/2" B

### temperature:

-50°C up to +150°C

### sensor length:

0 – 200,0 mm – depending on design

### design:

thermometer in compact design

### body material:

Cr-Ni-steel

### sensor:

Pt100 class A – IEC 60751

### process connection:

stainless steel 1.4571/316TI

### supply voltage:

10–35V DC reverse voltage protected

### precision:

0,1K oder 0,08%

### long-term drift:

±0,1K or 0,5% FS / Jahr not cumulative

### output:

analog 4 – 20mA

### temperature:

process: -50°C – +150°C

environment: -40°C – +85°C

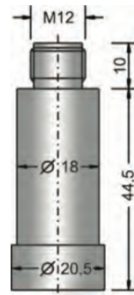
### EMV compatibility:

Class B means of production / industrial sector (EN/IEC 61326)

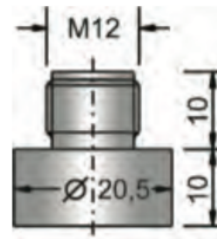
### electrical connection:

plug M12 IP67

diameter:

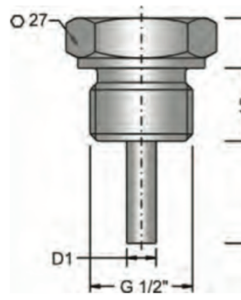


2-wire, 4...20mA

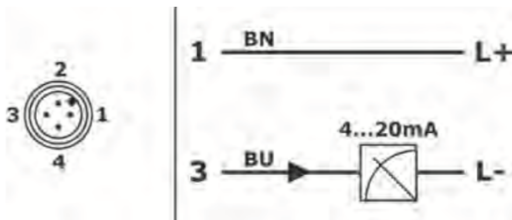


Pt100, 4-wire

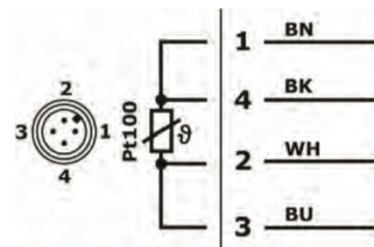
process connection:



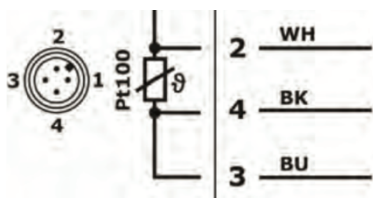
G 1/2" ISO 228-1



2-wire / 4...20 mA



4-wire / Pt100 / Type 1



4-wire / Pt100 / Type 2

**explanation:**

Core color standard connection cable M12:  
 BN = brown, WH = white, BU = blue, BK = black  
 The connection cable is not included.

**article number:**

type	range of temperature	sensor length	electrical output	connection	sensor-diameter
<b>TM01</b>	00 – -50 – +100°C	<b>0 – 50 mm</b>	0 – 2-Leiter, 1x 4 – 20mA	<b>03 – G 1/2" B</b>	<b>.6 – 6 mm</b>
	01 – -40 – +60°C	1 – 100 mm	<b>1 – Pt100, 4-Leiter, Typ 1</b>		.8 – 8 mm
	02 – -30 – +60°C	2 – 150 mm	2 – Pt100, 4-Leiter, Typ 2		.10 – 10 mm
	<b>03 – -30 – +150°C</b>	3 – 200 mm			
	04 – -30 – +70°C				
	05 – -20 – +20°C				
	06 – -20 – +60°C				
	07 – -10 – +40°C				
	08 – 0 – +50°C				
	09 – 0 – +100°C				
	10 – 0 – +150°C				

**example:**

**TM01030103**

thermometer in compact design made of stainless steel **without neck tube**

output: Pt100, 4-wire, Type 1  
 sensor length: 50 mm  
 sensor diameter: 6 mm  
 range of temperature: -30°C – +150°C  
 connection: G 1/2" B

**Note:**

If process temperatures increase 100°C, a neck tube is recommended to protect the electrical devices. The neck tube is available with a standard length of 100 mm or individual lengths. Depending on the ordered length, an extra charge will be calculated. Please order as followed:

example:

TM01030103.6**HS** – for standard length of 100mm

TM01030103.6**Hxxx** – for individual lengths of xxx mm

Image similar, subject change without notice.