

# TEM01

## Temperature Sensor with Cable Connector

- **resistance thermometer (Pt100)  
or thermocouple (NiCr-Ni)**
- **to plug in or to screw in**
- **max. temperature: 1200 °C, max. pressure: PN 25**
- **special designs as requested**



### Description:

The temperature sensors of the model series TEM01 are provided in a stainless steel or Inconel thermowell. Connection cable and thermowell are firmly connected together. As Measuring sensors resistance thermometers or thermocouples can be chosen. The diameter of the thermowell is between 2 and 6 mm. Apart from the standard lengths, the installation length can be adjusted according to customer requirements.

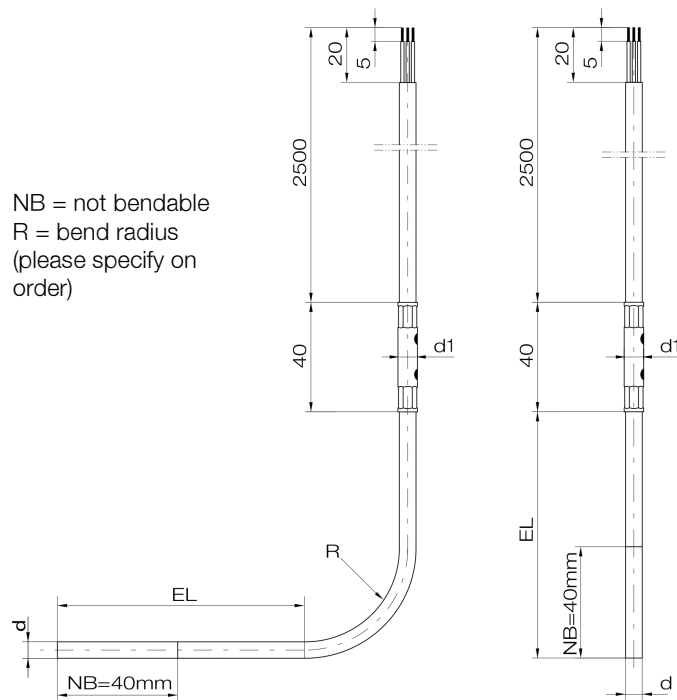
### Typical applications:

Temperature sensors of this version are applied in general use, preferred in processes with liquid or gaseous media at low pressure.

Main applications:

- mechanical engineering
- vessels- and pipeline-construction
- heating- and oven- construction

## Dimensions:



NB = not bendable  
R = bend radius  
(please specify on order)

d [mm]	d1 [mm]	installation length EL [mm]
2	6	100
3		200
4,5		300
6	8	400
		500

## Technical Data:

### Process connection:

Compression fitting: G 1/4 B, G 1/2 B, M10x1

Process pressure: PN 25

### Thermowell:

Diameter: 2...6 mm

Material:

Pt100: stainless steel 1.4571  
thermocouple K: Inconel 600 (2.4816)  
others on request

Smallest bend radius: 5 x diameter

### Connection cable:

Standard length: 2.5 m

Material:

silicone (standard)  
-50 °C...+180 °C  
PFTE -190 °C...+260 °C  
glass fibre / st. steel mesh  
-50 °C...+350 °C

### Sensor:

Resistance thermometer: Pt100 acc. to DIN EN 60751,  
usable: -199...600 °C  
class A: -70...+400 °C  
otherwise class B

Thermocouple:

type K, NiCr-Ni / insulated  
DIN EN 60584,  
temp. range: -200...+1200 °C  
type J and L on request

## Order Code:

Order number: TEM01. 08V. 6. 0050. S. 1P3. 0

Temperature sensor  
with cable connection

### Connection thread:

0 = without  
08V = G 1/4 variable  
15V = G 1/2 variable  
1MV = M10 x1 variable  
others on request

### Thermowell diameter:

2 = 2 mm  
3 = 3 mm  
4 = 4,5 mm  
6 = 6 mm

### Installation length (without screw connect.):

0100 = 100 mm  
0200 = 200 mm  
0300 = 300 mm  
0400 = 400 mm  
0500 = 500 mm  
xxxx = special request

### Connection cable:

S = Silicone, -50...+180 °C  
T = PTFE, -190...+260 °C  
G = Glass fibre / st. steel mesh -50...+350 °C  
other lengths see options

### Sensor:

1P3 = 1 x Pt100 / 3-wire  
2P3 = 2 x Pt100 / 3-wire  
1KA = 1 x NiCr-Ni, thermocouple, type K  
2KA = 2 x NiCr-Ni, thermocouple, type K

### Options:

0 = without  
xx = please specify in plain text (see "Options")

Please specify bend radius at order

## Options:

### Please specify in plain text:

- longer connection cable
- Anti bend protection spring on the cable output
- other material of thermowell
- other compression fitting