

# Resistance thermometer with straight or angled head for general applications.

## APPLICATIONS

- For direct installation into the process
- Bearing
- Machine building
- Motors
- Pipelines and vessels

## SPECIFICATIONS

### Type

PT-4 (Straight)  
PT-5 (Angled)

### Accuracy class

Standard class A\*

### Scale ranges

-100 °C / +650°C

### Materials

Stainless steel insert and process connection

Carbon steel head with orange polyester varnish

Teflon cable

### Process connection

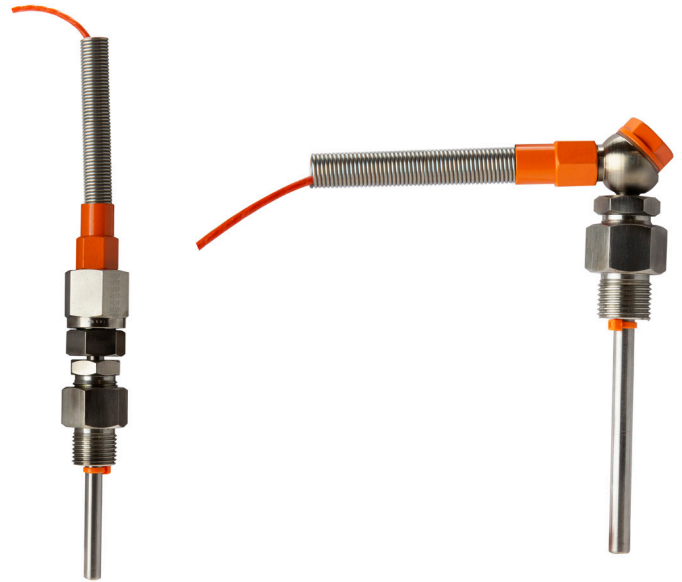
1/2" BSP, other connections on request

## DESCRIPTION

Resistance thermometers are particularly suitable for those applications in which the metal sensor tip is mounted directly into bored holes (e.g. in machine components) or directly into the process for any application with no chemically aggressive media or abrasion.

Mounting is usually directly into the process. Fastening elements such as threaded fittings, union nuts, etc. can also be used. The measuring resistor is connected directly to the internal leads of the sheathed cable and is, therefore, also suitable for use at higher temperatures.

Due to their flexibility and the small possible diameters, sheathed resistance thermometers can also be used in locations that are not easily accessible, since, with the exception of the sensor tip and the transition sleeve of the connection cable, the sheath can be bent to a radius of three times the diameter of the cable.



## FEATURES

- Sensor ranges from -100 °C / +650°C (-148°F/ +1202°F)
- For insertion, screw-in with optional process connections
- Connection head straight or angled.

## OPTIONS

- Accuracy class B or AA available on request\*
- Calibration certificate (national and international standards)

# PT-4 straight and PT-5 angled resistance thermometer

TUVO INSTRUMENTS PT-1.02

SENSOR	CONNECTION METHOD	
Measuring element Pt-100	Single elements	1 x 3-wire
		1 x 4-wire

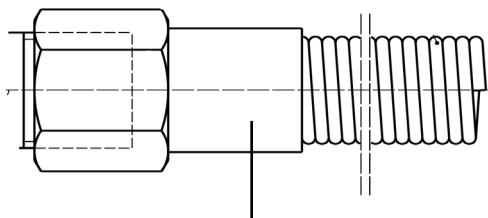
## Metal probe

Material: Stainless steel  
 Diameter: 6\*, 8, 10, 12 or 15 mm  
 Length: Selectable

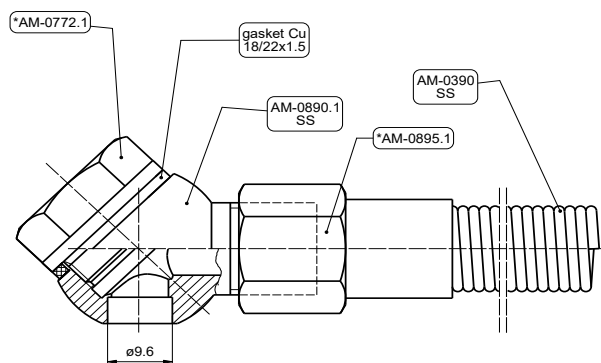
\*Only possible for thermometers without thermowell

## Electrical connection

Teflon insulated cable with flying leads.



made of carbon steel and painted with varnish polyester RAL 2003 half gloss



\* made of carbon steel and painted with varnish polyester RAL 2003 half gloss

Model: PT-4: Straight version with cable protecting spring

Model: PT-5: Angled version with cable protecting spring

## CONNECTION HEAD

MODEL	MATERIAL	SURFACE	SPRING	MIN. / MAX. AMBIENT TEMPERATURE
Straight / Angled	Carbon steel	Orange, Polyester varnished	Stainless steel	-40 / +80 °C

# PT-4 straight and PT-5 angled resistance thermometer

TUVO INSTRUMENTS PT-1.02

Item	Code	Notes	XXX	X	X	XX	XX	XXX	X	X
Product										
Straight resistance thermometer	PT4									
Angled resistance thermometer	PT5									
Configuration										
Spring protected leads	X									
Measuring Element										
3-wire	3									
4-wire	4									
Maximum temperature										
200°C	LT									
550°C	HT									
Insert diameter										
6 mm	06									
8 mm	08									
10 mm	10									
12 mm	12									
15 mm	15									
Insert length - L										
Specify length in mm (3 digits)	xxx									
Sliding coupling connection										
No connection, plain stem	X									
G 1/2"	A									
1/2"NPT	B									
M20 x 1,5	C									
M27 x 2	D									
G3/4"	E									
Other connection	Z	(Please specify!)								
Fixed thread connection										
G 1/2"	1									
G 1/4"	2	(Max. 8 mm insert)								
1/2"NPT	3									
G 3/4"	4									
Other connection	0	(Please specify!)								
Cable length										
Specify length in meters	x									