

Overview

TxTA03 temperature sensor uses high-precision platinum resistance with a 304 stainless steel probe, ensuring durability and corrosion resistance. It offers multiple installation options and suits various industries, including petroleum, chemical, HVAC, and hydrology

Armored Temperature Sensor



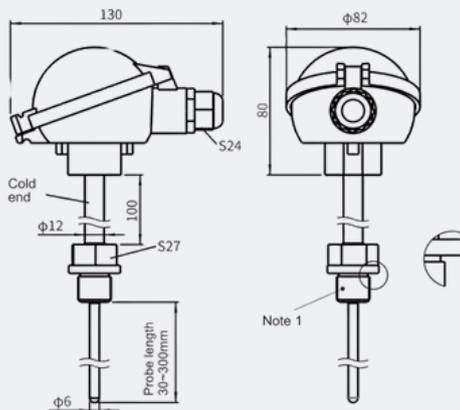
Features

- Material: 304 stainless steel, corrosion-resistant, excellent mechanics.
- Feature: Reverse protection function.
- Protection: High level, up to IP65.

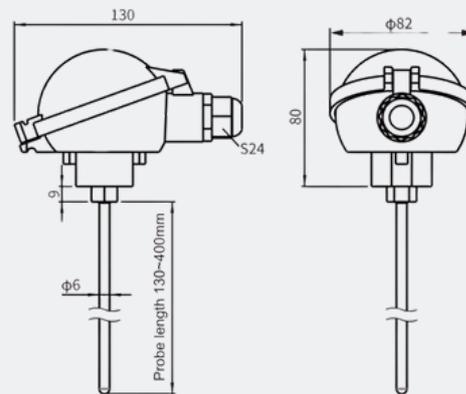
Applications

- Petroleum
- Chemical
- Heating
- Hydrology,
- HVAC
- other industrial site temperature measurement.

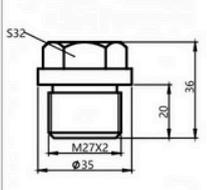
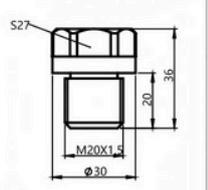
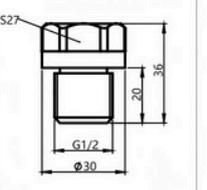
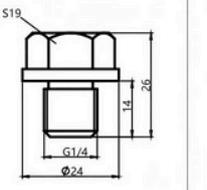
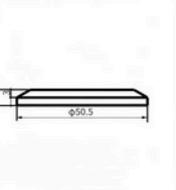
Dimensions



· Sleeved Type ·



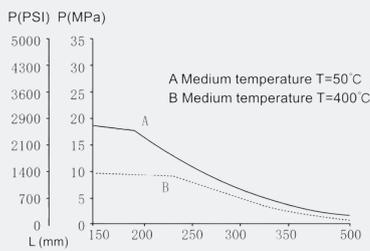
· Direct Insert Type ·

Thread Size					
Thread Spec	M27*2	M20*1.5	G1/2	G1/4	Clamp size 50.5MM

PARAMETRIC CURVE

① Pressure resistance characteristics

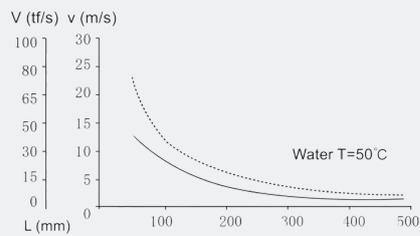
The pressure that protective tube withstand changes with the tube length (see the figure below)



Protective tube diameter 6MM, wall thickness 1.0MM,
 L: immersion depth, P: process pressure

② Medium flow

The maximum medium flow rate that the protective tube can withstand decreases with the increase of insertion depth (see the figure below)

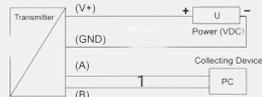


Protective tube diameter 6MM, wall thickness 1.0MM,
 L: immersion depth V: flow rate

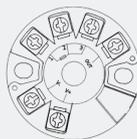
Wiring Instructions



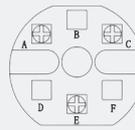
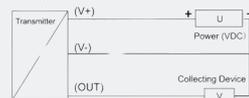
• RS485 Output



• Current Output (two wire system)



• Voltage Output (three wires system)



A C E
 Red Red White



PT100/PT1000
 output wiring diagram

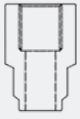
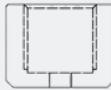
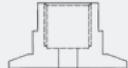
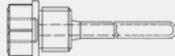
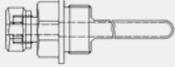
Specifications:

Armored Temperature Sensor

Measuring medium	Liquid or gas, etc. (compatible with contact materials)
Range	-50~300°C (see range parameter selection table for details)
Output Signal	4~20mA / 0~10VDC / RS485 / PT100 / PT1000
Supply Voltage	15~35VDC
Accuracy	0.25%FS, 0.5%FS
Housing material	Die-cast aluminum housing, 304 stainless steel probe rod and casing
Working Environment	-40~85°C, 0~95%RH (No condensation)
Protection level	IP65 (Note: this protection level refers to the level achieved after the electrical connection is complete)

ACCESSORIES (NEED PURCHASE SEPARATELY)

ACCESSORIES PURCHASE SEPARATELY)

 <p>Staged welded ring</p>	 <p>Flat welded ring</p>	 <p>Clamp adapter</p>	 <p>Flange adapter</p>	 <p>Ferrule adapter</p>	 <p>Integrated sleeve</p>	 <p>Ferrule tube</p>
Welded ring		Adapter			Protective tube	

Selection Code:

Code and description

TxTA03

Armored Temperature Sensor

V10	0~10VDC(3-wire)	1	Pt100, ±0.2°C@0°C
A	4~20mA(2-wire)	2	Pt1000, ±0.2°C@0°C
RS	RS485/Modbus		

25 0.25%FS

50 0.5%FS

1	0~100°C	4	-50~150°C (with cold end)
2	0~200°C (with cold end)	5	-50~300°C (with cold end)
3	0~300°C (with cold end)	9	customized (-50~300°C)

1 Wiring Box

G2 G1/2 male (fixed thread installation)

G4 G1/4 male (fixed thread installation)

M M16*1.5 male (fixed thread installation)

M2 M20*1.5 male (fixed thread installation)

M7 M27*2 male (fixed thread installation)

C Clamp (50.5MM)

D Direct Insert Type

1 without

2 with

Sleeved Type

Remark

Model

Temperature Output

Accuracy

Temperature Range

Wiring Box

Installation Method

Protective Tube

1	30mm	Sleeved Type	Probe length (without thread)
2	50mm		
3	100mm		
4	150mm		
5	200mm		
6	300mm		
9	customized		
1D	130mm	Direct Insert Type	
2D	200mm		
3D	250mm		
4D	300mm		
5D	400mm		
9D	customized		
1	Without cold end (15mm)	Code End	
2	Cold end length 100mm		
9	Customized		