

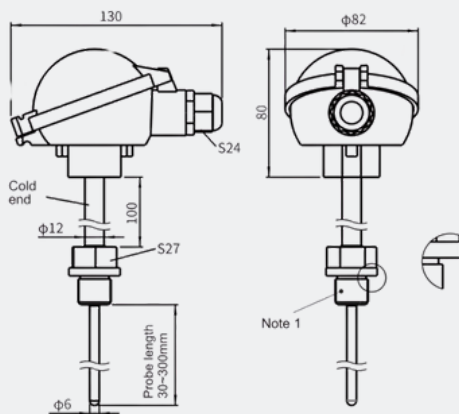
Overview

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

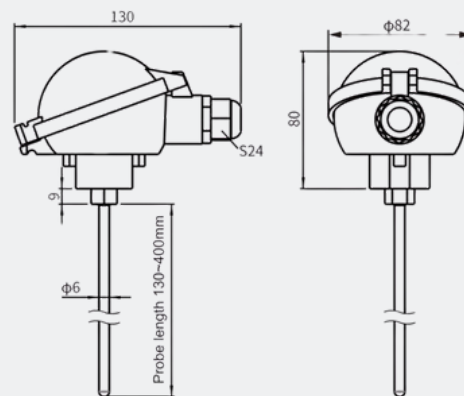
Features

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

Dimensions



· Sleeved Type ·



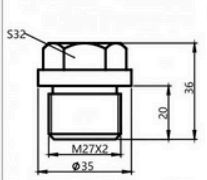
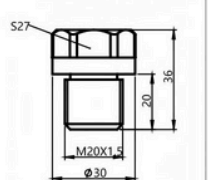
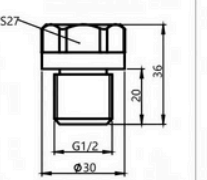
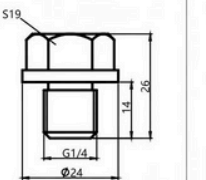
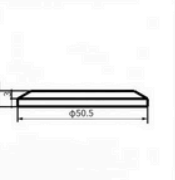
· Direct Insert Type ·

Armored Temperature Sensor



Applications

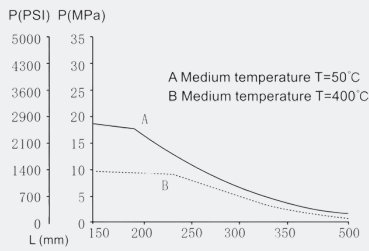
- Petroleum
- Chemical
- Heating
- Hydrology,
- HVAC
- other industrial site temperature measurement.

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

PARAMETRIC CURVE

① Pressure resistance characteristics

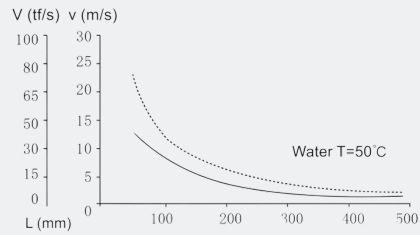
The pressure that protective tube withstand changes with the tube length (see the figure below)



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)

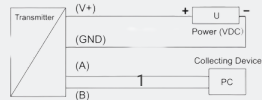


Protective tube diameter 6MM, wall thickness 1.0MM,
L: immersion depth V: flow rate

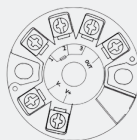
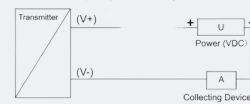
Wiring Instructions



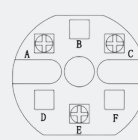
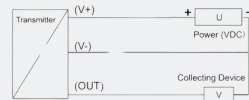
• RS485 Output



• Current Output (two wire system)



• Voltage Output (three wires system)



A C E Red Red White



PT100/PT1000
output wiring diagram

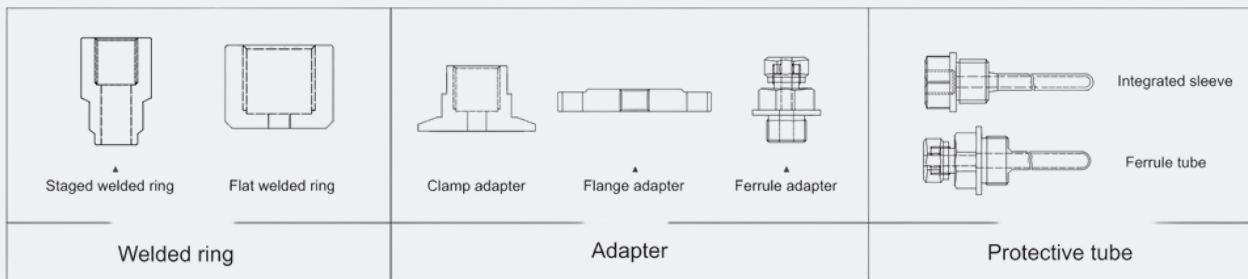
Specifications:

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)



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)

Sleeved Type

C Clamp (50.5MM)

D Direct Insert Type

1	without
2	with

Remark

Model

Temperature Output

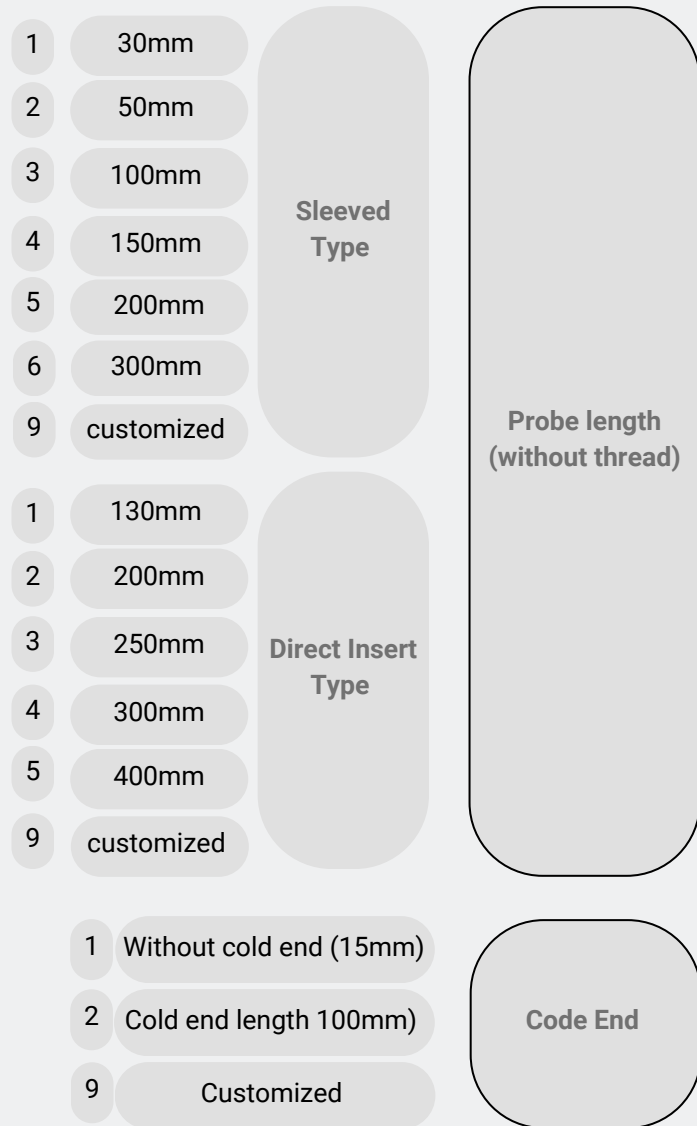
Accuracy

Temperature Range

Wiring Box

Installation Method

Protective Tube



Despite all attempts to guarantee accuracy in this specification, NeoWave cannot be held liable for any damage injury, loss, or expense due to errors or omissions. Product specification and design might change without prior notice in pursuit of technical enhancements.

For technical support please contact: support@neowave.tech