

Integrated Temperature Sensor

Overview

The **TxTI04** Integrated Temperature Sensor by NeoWave utilizes a high-resolution, high-precision temperature sensor as its measuring element. The amplifier circuit, housed in a 304 stainless steel enclosure, converts the sensor signal into an analog output. This robust stainless steel temperature sensor is ideal for various industrial applications.



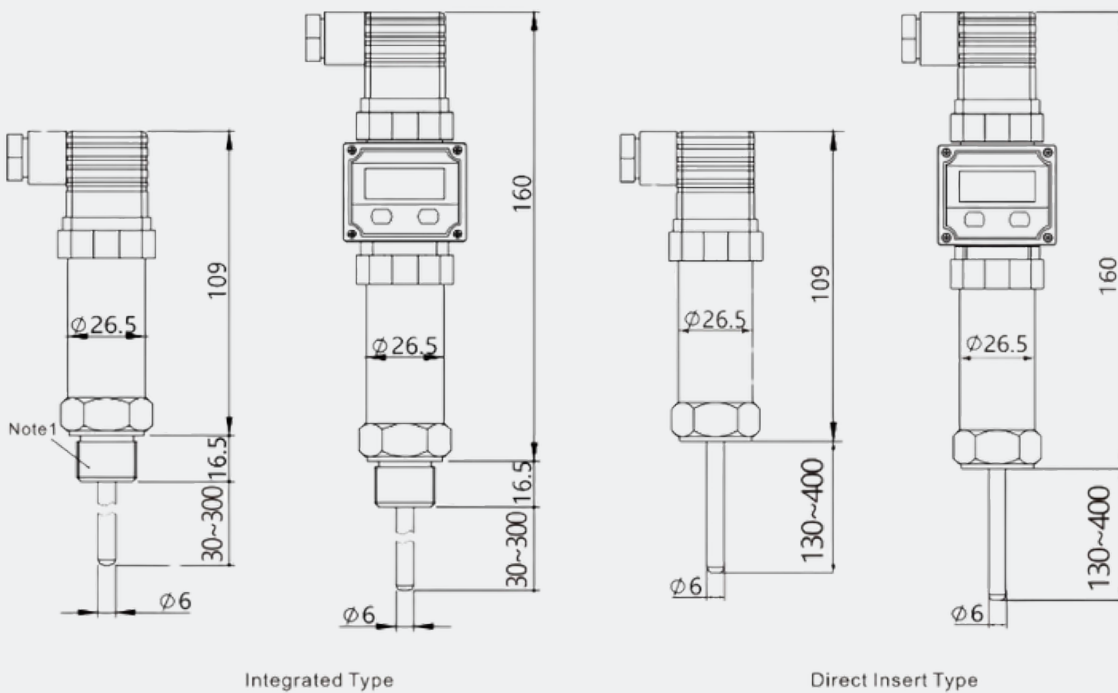
Features

- Reverse connection and overvoltage protection.
- Compact, lightweight, and easy to install.
- Ideal for fluid media temperature measurement, ensuring long-term stability.

Applications

- Petroleum industry
- Chemical industry
- Power plants
- Hydrology systems
- Industrial site temperature monitoring

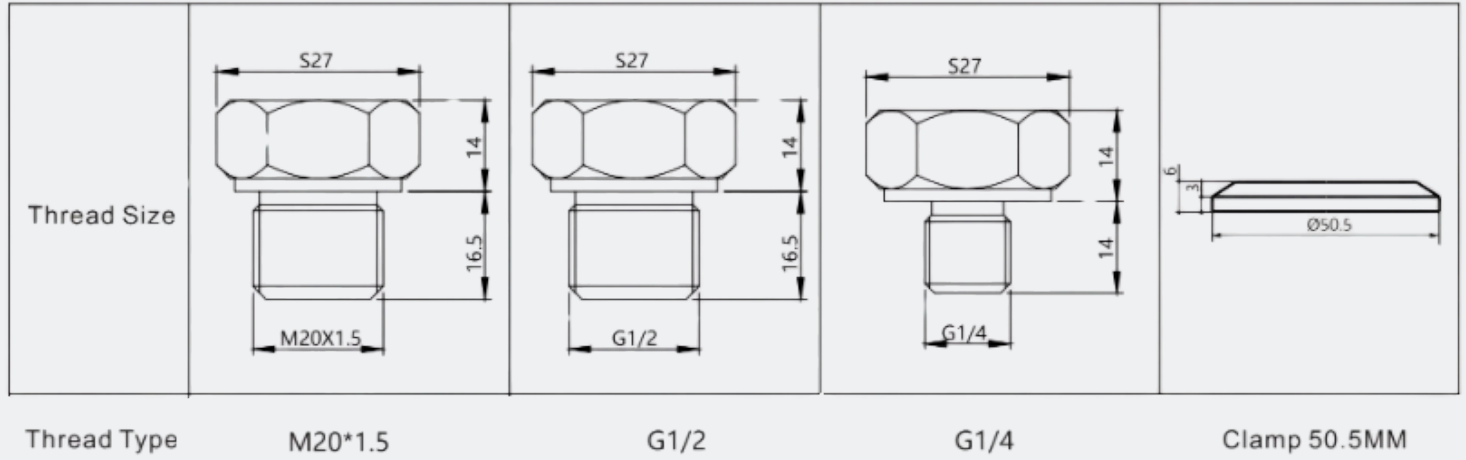
Dimensions





NEO WAVE®

Note1:

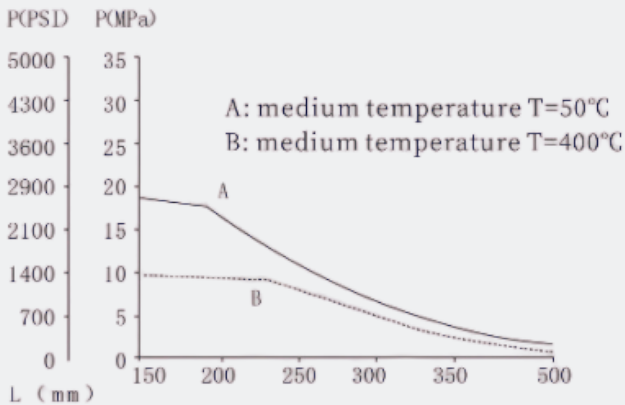


PRESSURE RESISTANCE CHARACTERISTICS

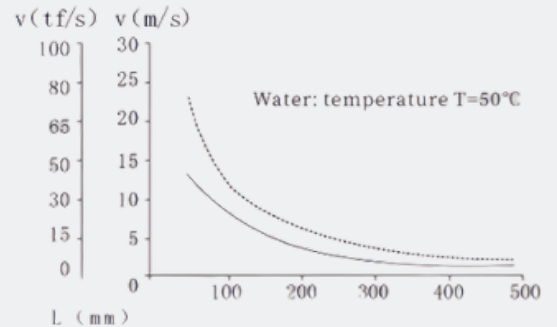
MEDIUM FLOW

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

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



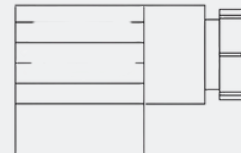
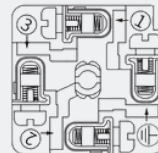
Protective tube diameter 6MM, wall thickness 0.5MM, L: immersion depth, P: process pressure



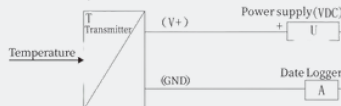
Protective tube diameter 6MM, wall thickness 0.5MM, L: immersion depth V: flow rate

Wiring Instructions

Mark	2-wire	3-wire
1	V+	V+
2	GND	GND
3		OUT
±		



4-20mA output(2-wire)



0-10V output (3-wire)



PT100/PT1000 Output(3-wire)



Specifications:

Integrated Temperature Sensor

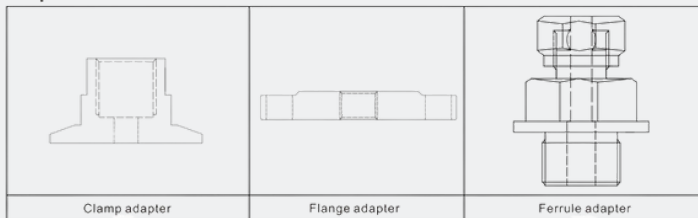
Measuring medium	Liquid or gas, etc. (compatible with contact materials)
Range	-50~200°C (see Order Ref NO.)
Output Signal	4~20mA / 0~10VDC / PT100 / PT1000
Supply Voltage	15~33VDC
Accuracy	0.5%FS
Housing material	304 stainless steel probe rod and casing, ABS Hirschmann connector
Working Environment	-40~85°C, 0~95%RH (No condensation)
Protection level	IP65 (without display), IP54 (with display) Note: The above protection level refers to the Protection level achieved after the electrical connection is complete.

ACCESSORIES (NEED PURCHASE SEPARATELY)

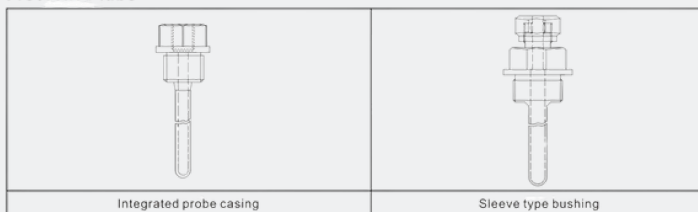
Welded ring



Adapter



Protective tube



Selection Code:

Code and description

TxTI04

Integrated 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
1	0~100°C	4	-50-100°C
2	0-200°C	5	-50-200°C
3	-50-50°C	9	customized (-50-200°C)

G2	G1/2 male (fixed thread installation)
G4	G1/4 male (fixed thread installation)
M	M20-1.5 male (fixed thread installation)
C	clamp (50.5MM)
D	Direct Insert Type

Integrated Type

1	without
2	with

Integrated Type	1	30mm	Direct Insert Type	1	130mm
	2	50mm		2	200mm
	3	100mm		3	250mm
	4	150mm		4	300mm
	5	200mm		5	400mm
	6	300mm		9	customized
	9	customized			

1	without
2	with

Remark

Model

Temperature Output

Temperature Range

Installation Method

Protective Tube

Probe Length

Display

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