NEO WAVE

TxTI04

Integrated Temperature Sensor

Technical Data Sheet

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.

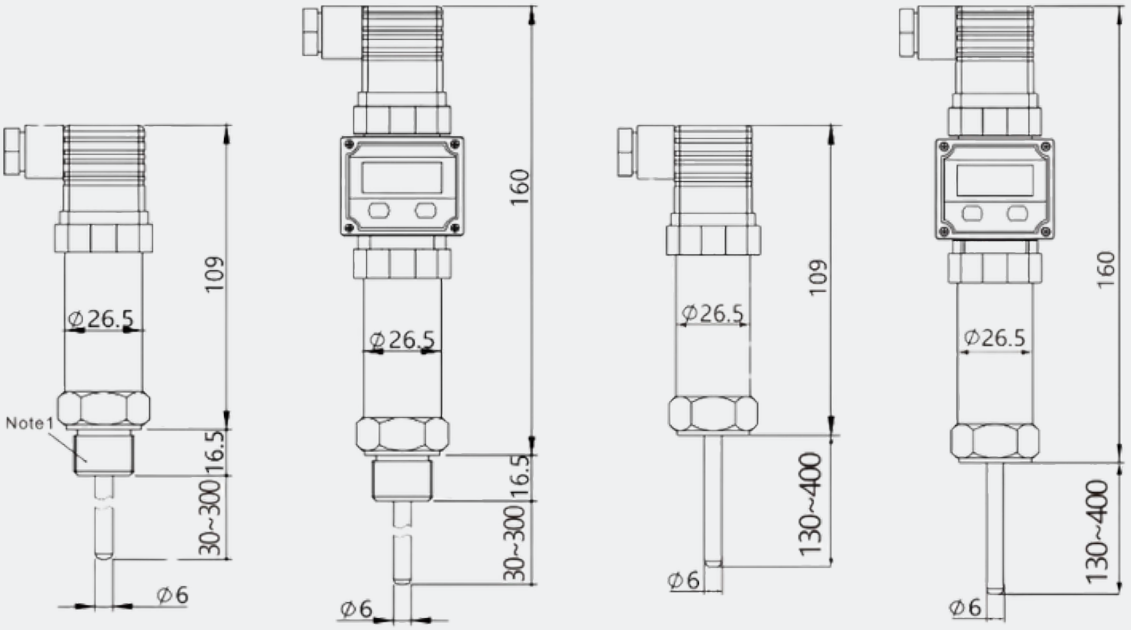
Features

- 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



Integrated Type

Direct Insert Type

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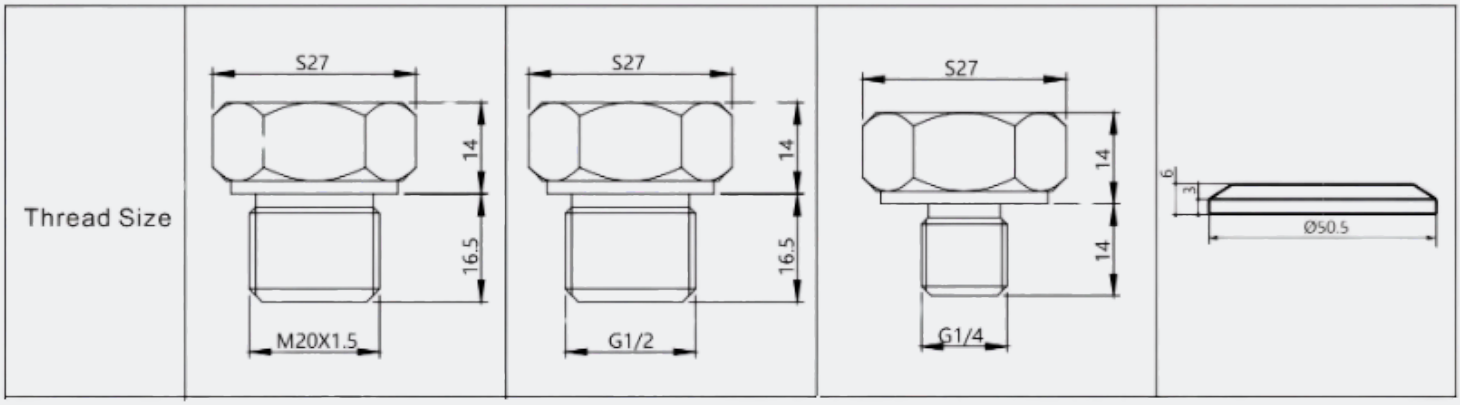
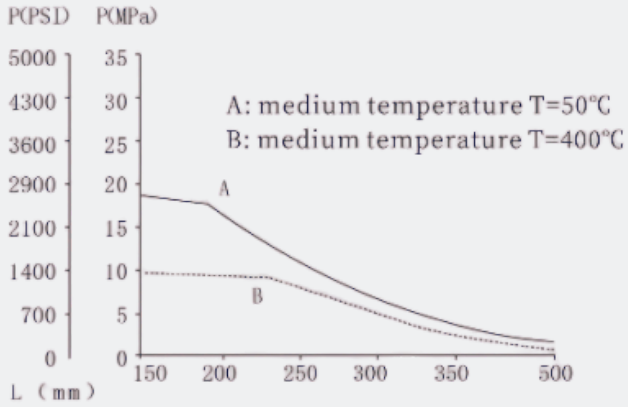
Note1:



Thread Type	M20*1.5	G1/2	G1/4	Clamp 50.5MM

PRESSURE RESISTANCE CHARACTERISTICS

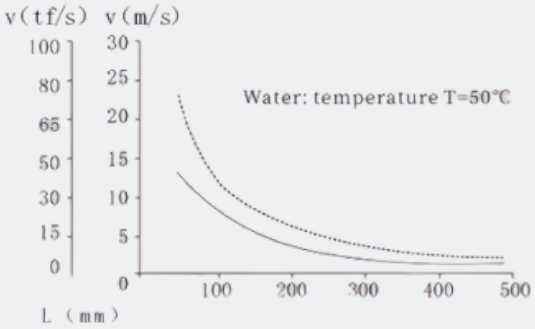
The pressure that protective tube withstand changes with the tube length (see the figure below)



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

MEDIUM FLOW

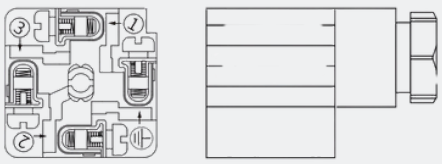
The maximum medium flow rate that the protective tube can withstand decreases with the increase of insertion depth (see the figure below)

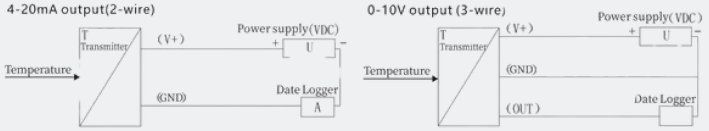


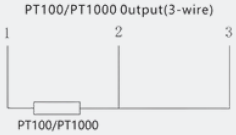
Protective tube diameter 6MM, wall thickness 0.5MM, L: immersion depth V: flow rate

Wiring Instructions

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







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Specifications:

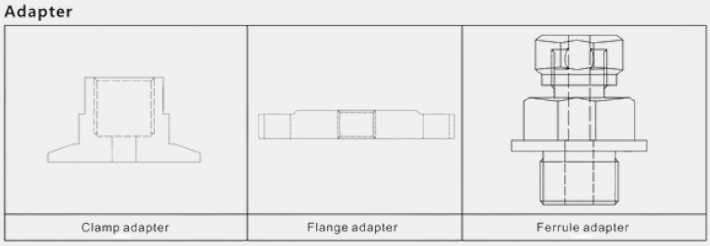
Integrated Temperature Sensor

Measuring medium	Liquid or gas, etc. (compatible with contact materials)
Range	-50~200℃ (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.

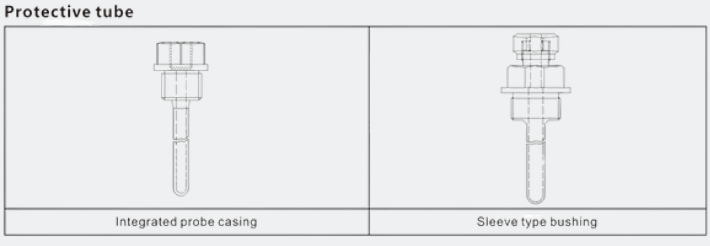
ACCESSORIES (NEED PURCHASE SEPARATELY)

Welded ring

Adapter



Protective tube



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Selection Code:

Code and description				Remark
TxTI04	Integrated Temperature Sensor			Model
V10	0~10VDC(3-wire)	1	Pt100, ±0.2°C@0°C	Temperature Output
A	4~20mA(2-wire)	2	Pt1000, ±0.2°C@0°C	
1	0~100°C	4	-50-100°C	Temperature Range
2	0-200°C	5	-50-200°C	
3	-50-50°C	9	customized (-50-200°C)	
G2	G1/2 male (fixed thread installation)			Installation Method
G4	G1/4 male (fixed thread installation)			
M	M20-1.5 male (fixed thread installation)			
C	clamp (50.5MM)			
D	Direct Insert Type			
1	without			Protective Tube
2	with			
Integrated Type	1	30mm	Direct Insert Type 1D	130mm	Probe Length
	2	50mm	2D	200mm	
	3	100mm	3D	250mm	
	4	150mm	4D	300mm	
	5	200mm	5D	400mm	
	6	300mm	9D	customized	
	9	customized			
1	without			Display
2	with			

For technical support please contact: support@neowave.tech