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Web (Ch): http://www.ziasiot.net/ Web (En): www.ziasiot.com Temperature Sensor/Transmitter



Company Profile

Ziasiot is an experienced manufacture of pressure and temperature sensors, transmitters; Melt pressure transmitters, melt temperature sensors, Internet of Things, laboratory instruments and automation with variety of brands such as Ziasiot, Holeader, EMPS, Wu Hao MC, etc, which could be used in different industrial fields and process control.

The main products developed and produced by our company consist of multiple series, including wireless sensors, flow sensors, linears, pressure sensors, liquid level sensors, high temperature melt pressure sensors, melt pressure gauge, high temperature melt pressure transmitter, temperature sensor, fusion index instrument, pressure calibration system, smart digital instrument, blasting switch, smart home system, smart module, smart body scale, laboratory instrument, Internet of Things, and Automated complete control system. We strive to innovate, advocate environmental protection, adhere to the concept of high quality and integrity, and are committed to developing into a technology manufacturing group enterprise of sensor Internet of things and automated control systems.

Ziasiot is a high-tech enterprise headquartered in Shanghai, members of whom have many years of experience in automation and extrusion industry. With years of professional knowledge, we established an organizational structure oriented by customer demand, and continuously innovated technology and obtained a number of national patents, which makes zias an innovator in the fields of sensors, Internet of things and automation control. In order to emphasize Our commitment to quality and reputation, the R & D and production process of all zias brands ensure to meet and possess RoHS, ISO, CE, CMC, CPA, ex and other certifications.

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Application industry:

chemical / pharmaceutical / power / energy / municipal / environmental protection food / paper / ship / metallurgy

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Product Summar<u>ize</u>

ZTS series thermal resistance temperature sensor/transmitter is currently the most commonly used temperature detector in the low temperature area, our company uses platinum material PT100 / PT1000 as the measuring core, its main characteristics are high accuracy and stable performance, not only widely used in food and pharmaceutical / industrial temperature measurement, but also made into a standard reference instrument. Products are widely used, mainly used in chemical industry, steel, metallurgy, pharmaceutical, food, new energy and so on.

Working Principle

Temperature sensor is the use of temperature and measured between the resistance value of the change into a corresponding relationship. The corresponding temperature value is obtained by measuring the resistance value of the measured element. The temperature transmitter converts the measured resistance value into a 4-20mA current signal, and obtains the corresponding temperature value by measuring the output current signal.

Technical Feature

- Adopt imported temperature sensing element, high precision, good stability
- The structure is simple, easy to install, armored structure is easy to replace
- Good seismic performance
- Large measuring range, high mechanical strength, good pressure resistance

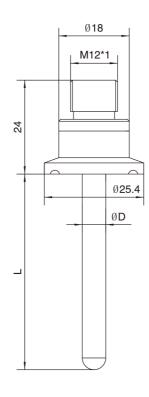






ZTS111 Series





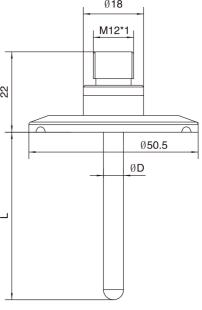
Technical Parameter

Series	ZTS1110	ZTS1112				
Core Type	PT	100	PT1000			
Core Grade	CLASS A	CLASS1/3B	1			
Temperature Range	-	-20~150°C				
Signal Output	Three-	wire Resistance)			
Accuracy	±(0.	15+0.002x[t])				
Heat Transfer Velocity		1-3S				
Liquid Connection Material		SUS316L				
Process Connection	25.4mn	n Sanitary Chuc	k			
Rod Diameter		6mm				
Electrical Connection	M12*1 Aviation Connection					
Compressive Strength	Up to 25bar					
Protection Grade		IP67				

Order Number	Rod Diameter	Mounting Depth	Order Number	Rod Diameter	Mounting Depth	Order Number	Rod Diameter	Mounting Depth
ZTS1110602		25mm	ZTS1111602		25mm	ZTS1112602		25mm
ZTS1110605	6mm	50mm	ZTS1111605	6mm	50mm	ZTS1112605	6mm	50mm
ZTS1110610	Ollilli	100mm	ZTS1111610	Ollilli	100mm	ZTS1112610	Ollilli	100mm
ZTS1110615	150mm ZTS1111615 150mm		ZTS1112615		150mm			
Note: Special specifications require confirmation of order number								

ZTS112 Series





Technical Parameter

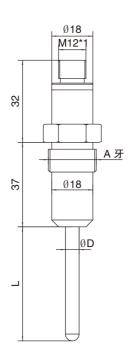
Series	ZTS1120	ZTS1121	ZTS1122		
Core Type	PT ⁻	100	PT1000		
Core Grade	CLASS A	CLASS1/3B	1		
Temperature Range	-	20~150°C			
Signal Output	Three-	wire Resistance	;		
Accuracy	±(0.15+0.002x[t])				
Heat Transfer Velocity	1-3S				
Liquid Connection Material		SUS316L			
Process Connection	50.5mn	n Sanitary Chuc	k		
Rod Diameter	6	Smm/8mm			
Electrical Connection	M12*1 Aviation Connection				
Compressive Strength	Up to 25bar				
Protection Grade		IP67			

Order Number	Rod Diameter	Mounting Depth	Order Number	Rod Diameter	Mounting Depth	Order Number	Rod Diameter	Mounting Depth
ZTS1120603		30mm	ZTS1121603		30mm	ZTS1122603		30mm
ZTS1120605	6mm	50mm	ZTS1121605	6mm	50mm	ZTS1122605	6mm	50mm
ZTS1120610	0111111	100mm	ZTS1121610	0111111	100mm	ZTS1122610	0111111	100mm
ZTS1120615		150mm	ZTS1121615		150mm	ZTS1122615		150mm
ZTS1120805		50mm	ZTS1121805		50mm	ZTS1122805		50mm
ZTS1120810	0 m m	100mm	ZTS1121810	8mm	100mm	ZTS1122810	0 m m	100mm
ZTS1120815	8mm	150mm	ZTS1121815	0111111	150mm	ZTS1122815	8mm	150mm
ZTS1120820		200mm	ZTS1121820		200mm	ZTS1122820		200mm
Note: Special si	Note: Special specifications require confirmation of order number							



ZTS113 Series



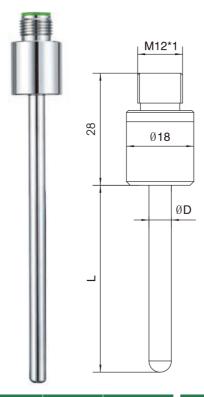


Technical Parameter

Series	ZTS1130	ZTS1132				
Core Type	PT	100	PT1000			
Core Grade	CLASS A	CLASS1/3B	1			
Temperature Range	-	50~150℃				
Signal Output	Three-	wire Resistance	9			
Accuracy	±(0.	15+0.002x[t])				
Heat Transfer Velocity		1-3S				
Liquid Connection Material		SUS316L				
Process Connection	Sanitary Se	eal with G1/2 " T	aper			
Rod Diameter	(6mm/8mm				
Electrical Connection	M12*1 Aviation Connection					
Compressive Strength	Up to 40bar					
Protection Grade		IP67				

Order Number	Rod Diameter	Mounting Depth	Order Number	Rod Diameter	Mounting Depth	Order Number	Rod Diameter	Mounting Depth
ZTS113000A	1	Flush Mount	ZTS113100A	1	Flush Mount	ZTS113200A	1	Flush Mount
ZTS1130603		30mm	ZTS1131603		30mm	ZTS1132603		30mm
ZTS1130605	6mm	50mm	ZTS1131605	6mm	50mm	ZTS1132605	6mm	50mm
ZTS1130610	Ollilli	100mm	ZTS1131610	Ollilli	100mm	ZTS1132610	Ollilli	100mm
ZTS1130615		150mm	ZTS1131615		150mm	ZTS1132615		150mm
ZTS1130805		50mm	ZTS1131805		50mm	ZTS1132805		50mm
ZTS1130810	0 m m	100mm	ZTS1131810	0 m m	100mm	ZTS1132810	8mm	100mm
ZTS1130815	8mm	150mm	ZTS1131815	8mm	150mm	ZTS1132815	0111111	150mm
ZTS1130820		200mm	ZTS1131820		200mm	ZTS1132820		200mm

ZTS118 Series



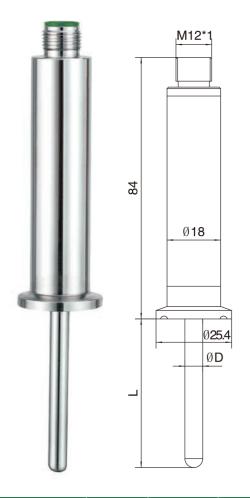
Technical Parameter

Series	ZTS1180	ZTS1181	ZTS1182		
Core Type	PT ⁻	100	PT1000		
Core Grade	CLASS A	CLASS1/3B	/		
Temperature Range	-	50~150°C			
Signal Output	Three-	wire Resistance)		
Accuracy	±(0.15+0.002x[t])				
Heat Transfer Velocity		1-3S			
Liquid Connection Material		SUS316L			
Process Connection	None (N	latching Adapte	er)		
Rod Diameter	6mn	n/8mm/10mm			
Electrical Connection	M12*1 Aviation Connection				
Compressive Strength	Up to 25bar				
Protection Grade		IP67			

Order Number	Rod Diameter	Mounting Depth	Order Number	Rod Diameter	Mounting Depth	Order Number	Rod Diameter	Mounting Depth	
ZTS1180605		50mm	ZTS1181605		50mm	ZTS1182605		50mm	
ZTS1180610		100mm	ZTS1181610		100mm	ZTS1182610		100mm	
ZTS1180615	6mm	150mm	ZTS1181615	6mm	150mm	ZTS1182615	6mm	150mm	
ZTS1180620		200mm	ZTS1181620	Ollilli	200mm	ZTS1182620		200mm	
ZTS1180625		250mm	ZTS1181625		250mm	ZTS1182625		250mm	
ZTS1180630		300mm	ZTS1181630		300mm	ZTS1182630		300mm	
ZTS1180805		50mm	ZTS1181805		50mm	ZTS1182805		50mm	
ZTS1180810		100mm	ZTS1181810		100mm	ZTS1182810		100mm	
ZTS1180815	8mm	150mm	ZTS1181815	8mm	150mm	ZTS1182815	8mm	150mm	
ZTS1180820	0111111	200mm	ZTS1181820	Ollilli	200mm	ZTS1182820	0111111	200mm	
ZTS1180830		300mm	ZTS1181830		300mm	ZTS1182830		300mm	
ZTS1180840		400mm	ZTS1181840		400mm	ZTS1182840		400mm	
ZTS1180115		150mm	ZTS1181115		150mm	ZTS1182115		150mm	
ZTS1180125		250mm	ZTS1181125		250mm	ZTS1182125		250mm	
ZTS1180135	10mm	350mm	ZTS1181135	10mm	350mm	ZTS1182135	10mm	350mm	
ZTS1180145		450mm	ZTS1181145		450mm	ZTS1182145		450mm	
ZTS1180155		550mm	ZTS1181155		550mm	ZTS1182155		550mm	
Note: Special	Note: Special specifications require confirmation of order number								



ZTS121 Series

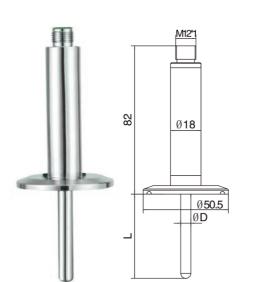


Technical Parameter

Series	ZTS1210	ZTS1211			
Core Type	PT100				
Core Grade	CLASS A	CLASS1/3B			
Temperature Range	-50~1	150℃			
Power Supply	24\	'DC			
Signal Output	4-20mA two-wire				
Accuracy	±0.3+(±0.1%Ms)	±0.2+(±0.1%Ms)			
Heat Transfer Velocity	1-3	3S			
Liquid Connection Material	SUS	316L			
Process Connection	25.4mm Sar	nitary Chuck			
Rod Diameter	6n	ım			
Electrical Connection	M12*1 Aviation	n Connection			
Compressive Strength	Up to 25bar				
Protection Grade	IP67				

Order Number	Rod Diameter	Mounting Depth	FactoryRange°C	Order Number	Rod Diameter	Mounting Depth	FactoryRange°C	
ZTS1210602A		25mm		ZTS1211602A		25mm		
ZTS1210605A		50mm	0-200	ZTS1211605A		50mm	0-200	
ZTS1210610A		100mm	0-200	ZTS1211610A		100mm	0-200	
ZTS1210615A		150mm		ZTS1211615A		150mm		
ZTS1210602B		25mm		ZTS1211602B		25mm		
ZTS1210605B	6mm	50mm	0.400	ZTS1211605B	6mm	50mm	0.400	
ZTS1210610B		100mm	0-100	ZTS1211610B	Ollilli	100mm	0-100	
ZTS1210615B		150mm		ZTS1211615B		150mm		
ZTS1210602C		25mm		ZTS1211602C		25mm		
ZTS1210605C		50mm	10 150	ZTS1211605C		50mm	-10-150	
ZTS1210610C		100mm	-10-150	ZTS1211610C		100mm	-10-150	
ZTS1210615C		150mm		ZTS1211615C		150mm		
Note: Special sp	Note: Special specifications require confirmation of order number							

ZTS122 Series



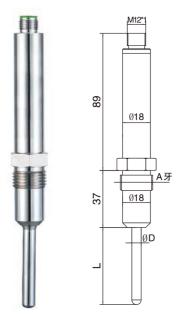
Technical Parameter

Series	ZTS1220	ZTS1221		
Core Type	PT ⁻	100		
Core Grade	CLASS A	CLASS1/3B		
Temperature Range	-50~1	150°C		
Power Supply	24V	'DC		
Signal Output	4-20mA two-wire			
Accuracy	±0.3+(±0.1%Ms)	±0.2+(±0.1%Ms)		
Heat Transfer Velocity	1-3	3S		
Liquid Connection Material	SUS	316L		
Process Connection	50.5mm Sar	nitary Chuck		
Rod Diameter	6mm/	/8mm		
Electrical Connection	M12*1 Aviation Connection			
Compressive Strength	Up to 25bar			
Protection Grade	IP67			

Order Number	Rod Diameter	Mounting Depth	FactoryRange℃	Order Number	Rod Diameter	Mounting Depth	FactoryRange°C
ZTS1220603A		30mm		ZTS1221603A		30mm	
ZTS1220605A	6mm	50mm		ZTS1221605A	6mm	50mm	
ZTS1220610A	Ollilli	100mm		ZTS1221610A	Ollilli	100mm	
ZTS1220615A		150mm	0-200	ZTS1221615A		150mm	0-200
ZTS1220805A		50mm	0-200	ZTS1221805A		50mm	0-200
ZTS1220810A	8mm	100mm		ZTS1221810A	8mm	100mm	
ZTS1220815A	Ollilli	150mm		ZTS1221815A	Ollilli	150mm	
ZTS1220820A		200mm		ZTS1221820A		200mm	
ZTS1220603B		30mm		ZTS1221603B		30mm	
ZTS1220605B	6mm 50mm 100mm		ZTS1221605B	6mm	50mm		
ZTS1220610B		100mm	0-100	ZTS1221610B		100mm	0-100
ZTS1220615B		150mm		ZTS1221615B		150mm	
ZTS1220805B		50mm		ZTS1221805B		50mm	
ZTS1220810B	8mm	100mm		ZTS1221810B	8mm	100mm	
ZTS1220815B	Ollilli	150mm		ZTS1221815B	Ollilli	150mm	
ZTS1220820B		200mm		ZTS1221820B		200mm	
ZTS1220603C		30mm		ZTS1221603C		30mm	
ZTS1220605C	6mm	50mm		ZTS1221605C	6mm	50mm	
ZTS1220610C	OIIIIII	100mm		ZTS1221610C	OIIIIII	100mm	
ZTS1220615C		150mm	-10-150	ZTS1221615C		150mm	-10-150
ZTS1220805C		50mm	-10-150	ZTS1221805C		50mm	-10-130
ZTS1220810C	0	100mm		ZTS1221810C	0	100mm	
ZTS1220815C	8mm	150mm		ZTS1221815C	8mm	150mm	
ZTS1220820C		200mm		ZTS1221820C		200mm	



ZTS123 Series

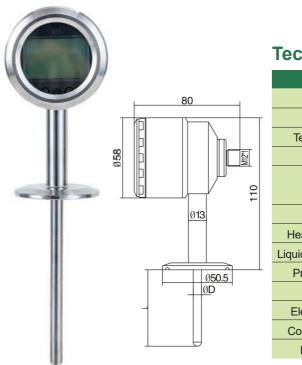


Technical Parameter

Series	ZTS1230	ZTS1231	
Core Type	PT	100	
Core Grade	CLASS A	CLASS1/3B	
Temperature Range	-50~1	150℃	
Power Supply	24\	/DC	
Signal Output	4-20mA two-wire		
Accuracy	±0.3+(±0.1%Ms)	±0.2+(±0.1%Ms)	
Heat Transfer Velocity	1-3S		
Liquid Connection Material	SUS316L		
Process Connection	Sanitary Seal with G1/2 " Taper		
Rod Diameter	6mm/8mm		
Electrical Connection	M12*1 Aviation Connection		
Compressive Strength	Up to	40bar	
Protection Grade	IP67		

Order Number	Rod Diameter	Mounting Depth	FactoryRange°C	Order Number	Rod Diameter	Mounting Depth	FactoryRange°C
ZTS123000AA	/	Flush Mount		ZTS123100AA	/	Flush Mount	
ZTS1230603A		30mm		ZTS1231603A		30mm	
ZTS1230605A	6mm	50mm		ZTS1231605A	6mm	50mm	
ZTS1230610A	Ollilli	100mm		ZTS1231610A	Ollilli	100mm	
ZTS1230615A		150mm	0-200	ZTS1231615A		150mm	0-200
ZTS1230805A		50mm		ZTS1231805A		50mm	
ZTS1230810A	8mm	100mm		ZTS1231810A	8mm	100mm	
ZTS1230815A	0111111	150mm		ZTS1231815A	OIIIIII	150mm	
ZTS1230820A		200mm		ZTS1231820A		200mm	
ZTS123000AB	1	Flush Mount		ZTS123100AB	1	Flush Mount	
ZTS1230603B		30mm		ZTS1231603B	6mm 8mm	30mm	
ZTS1230605B	6mm	50mm		ZTS1231605B		50mm	
ZTS1230610B		100mm		ZTS1231610B		100mm	
ZTS1230615B		150mm	0-100	ZTS1231615B		150mm	0-100
ZTS1230805B		50mm		ZTS1231805B		50mm	
ZTS1230810B	0	100mm		ZTS1231810B		100mm	
ZTS1230815B	8mm	150mm		ZTS1231815B		150mm	
ZTS1230820B		200mm		ZTS1231820B		200mm	
ZTS123000AC	/	Flush Mount		ZTS123100AC	1	Flush Mount	
ZTS1230603C		30mm		ZTS1231603C		30mm	
ZTS1230605C	6mm	50mm		ZTS1231605C	6mm	50mm	
ZTS1230610C	Ollilli	100mm		ZTS1231610C	Ollilli	100mm	
ZTS1230615C		150mm	-10-150	ZTS1231615C		150mm	-10-150
ZTS1230805C		50mm		ZTS1231805C		50mm	
ZTS1230810C	8mm	100mm		ZTS1231810C	8mm	100mm	
ZTS1230815C	0111111	150mm		ZTS1231815C	0111111	150mm	
ZTS1230820C		200mm		ZTS1231820C		200mm	

ZTS125 Series



Technical Parameter

Series	ZTS1250	ZTS1251			
Core Type	PT100				
Core Grade	CLASS A	CLASS1/3B			
Temperature Range	-20~2	250℃			
Power Supply	24V	'DC			
Signal Output	4-20mA two-wire LCD Display (optional 485/HART)				
Accuracy	±0.3+(±0.1%Ms)	±0.2+(±0.1%Ms)			
Heat Transfer Velocity	1-3S				
Liquid Connection Material	SUS316L				
Process Connection	50.5mm Sanitary Chuck/Seal with G1/2 " Tape				
Rod Diameter	6mm/8mm				
Electrical Connection	M12*1 Aviation Connection				
Compressive Strength	Up to	40bar			
Protection Grade	IP	67			

Order Number	Rod Diameter	Mounting Depth	Mounting Depth	Order Number	Rod Diameter	Mounting Depth	Mounting Depth
ZTS1250A605			50mm	ZTS1250B605			50mm
ZTS1250A610	6mm		100mm	ZTS1250B610	6mm		100mm
ZTS1250A615			150mm	ZTS1250B615			150mm
ZTS1250A805			50mm	ZTS1250B805			50mm
ZTS1250A810			100mm	ZTS1250B810			100mm
ZTS1250A815	8mm		150mm	ZTS1250B815	8mm		150mm
ZTS1250A820			200mm	ZTS1250B820			200mm
ZTS1250A825		50.5	250mm	ZTS1250B825		0.4 (0.7	250mm
ZTS1250A830		50.5mm Clamp	300mm	ZTS1250B830		G1/2" Seal Cone	300mm
ZTS1251A605		Olding	50mm	ZTS1251B605		0001 00110	50mm
ZTS1251A610	6mm		100mm	ZTS1251B610	6mm		100mm
ZTS1251A615			150mm	ZTS1251B615			150mm
ZTS1251A805			50mm	ZTS1251B805			50mm
ZTS1251A810			100mm	ZTS1251B810			100mm
ZTS1251A815	8mm		150mm	ZTS1251B815	8mm		150mm
ZTS1251A820	Ollilli	Ollilli	200mm	ZTS1251B820	Ollilli		200mm
ZTS1251A825			250mm	ZTS1251B825			250mm
ZTS1251A830			300mm	ZTS1251B830			300mm
Note: Special sp	pecifications	require confirmation	n of order numb	per			

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ZTS126 Series

83 M20'1.5

Technical Parameter

Series	ZTS1250	ZTS1251	
Core Type	PT100		
Core Grade	CLASS A	CLASS1/3B	
Temperature Range	-50~3	300℃	
Power Supply	1	24VDC	
Signal Output	Three-wire Resistance	4-20mA two-wire (optional 485/HART)	
Accuracy	±0.3+(±0.1%Ms)	±0.2+(±0.1%Ms)	
Heat Transfer Velocity	1-3S		
Liquid Connection Material	SUS316L		
Process Connection	50.5mm Sanitary Chuck/Seal with G1/2 " Taper		
Rod Diameter	6mm/8mm		
Electrical Connection	M12*1 Aviation Connection		
Compressive Strength	Up to 40bar		
Protection Grade	IP67		

Order Number	Rod Diameter	Process Connection	Insertion Depth	Order Number	Rod Diameter	Process Connection	Insertion Depth
ZTS1260A605-			50mm	ZTS1260B605-			50mm
ZTS1260A610-	6mm		100mm	ZTS1260B610-	6mm		100mm
ZTS1260A615-			150mm	ZTS1260B615-			150mm
ZTS1260A805-			50mm	ZTS1260B805-			50mm
ZTS1260A810-			100mm	ZTS1260B810-			100mm
ZTS1260A815-	8mm		150mm	ZTS1260B815-	8mm		150mm
ZTS1260A820-			200mm	ZTS1260B820-			200mm
ZTS1260A825-			250mm	ZTS1260B825-			250mm
ZTS1260A830-		50.5mmKP	300mm	ZTS1260B830-□		G1/2 "	300mm
ZTS1261A605-		JU.JIIIIIKF	50mm	ZTS1261B605-		Sealing Cone	50mm
ZTS1261A610-	6mm		100mm	ZTS1261B610-	6mm		100mm
ZTS1261A615-			150mm	ZTS1261B615-			150mm
ZTS1261A805-			50mm	ZTS1261B805-			50mm
ZTS1261A810-			100mm	ZTS1261B810-			100mm
ZTS1261A815-	8mm		150mm	ZTS1261B815-	8mm		150mm
ZTS1261A820-□			200mm	ZTS1261B820-□	Juliu		200mm
ZTS1261A825-			250mm	ZTS1261B825-			250mm
ZTS1261A830-□			300mm	ZTS1261B830-□			300mm

Note * Code for signal output:

Blank: three-wire resistance signal

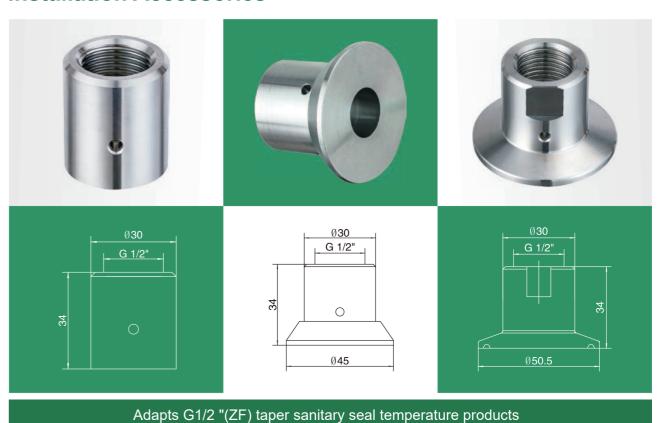
A: 4-20mA two-wire

B: 4-20mA two-wire HART

Example: ZTS1260A605 (Temperature sensor 126 series, CLASS A core, 50.5mm outside diameter sanitary chuck, 6mm rod diameter, insert 50mm, standard three-wire resistance signal output) ZTS1260A605-A(Temperature transmitter 126 series, CLASS A core, 50.5mm OD sanitary chuck, 6mm rod diameter, insert 50mm, 4-20mA two-wire current signal output, power supply 24VDC)

Note: Special specifications require confirmation of order number

Installation Accessories

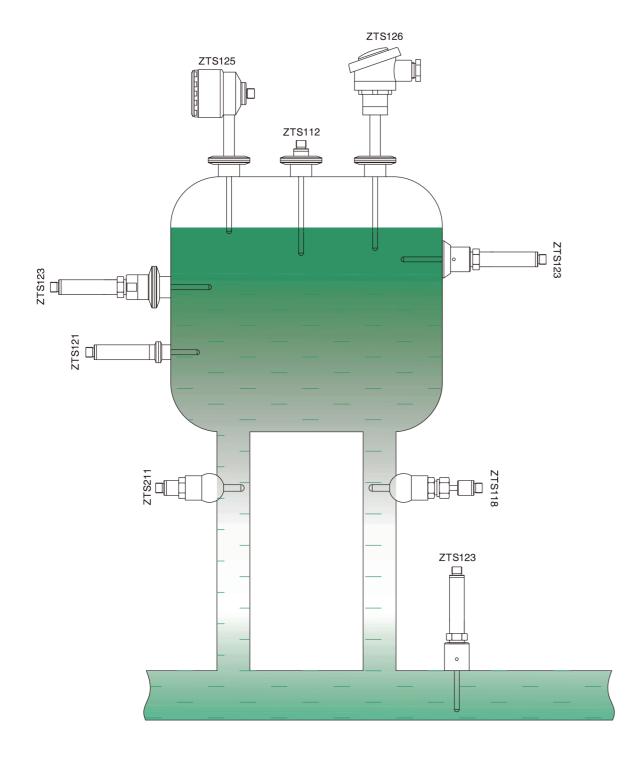




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Sanitary Installation Diagram





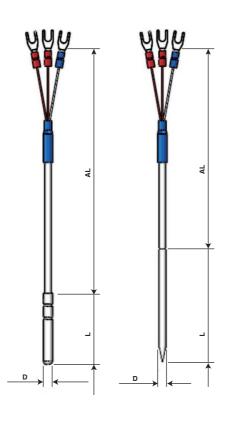




WRNT-100 Series

WZPT-100 Series

Seria Number	Parameter	Detailed Description
1	WRNT-100 Series WZPT-100 Series	WRNT:Thermocouple WZPT:Thermal Resistance
2	Quantity: x	1: Single 2: Double
3	Graduation number: F	Platinum Resistance: PT100 \ PT1000 \ PT200 \ PT500
		Thermocouple :S/R/B/K/E/J/N/T
4	Accuracy: CL	Platinum Resistance: A B C 1/3B
	7 toourady . OE	Thermocouple: I II III
5	Diameter: D(mm)	2 3 4 5 6 8 1020/Designation
6	Length: L(mm)	10-2000/Designation
7	Line Length: AL(M)	0.5M 1M 2M 3M/Designation
8	Operating	Platinum Resistance:-200-850 C specified within
0	Temperature: T	Thermocouple : -270-1820 ℃ specified within
9	Wiring: W	Platinum Resistance: W2: Two-wire system W4: Four-wire system W6: Six-wire system
		Thermocouple:none
10	Shielded Or Not: S	S0: Without Shield S1: With Shield
11	End of line treatment: XW	Tinning 2. U-shaped fork 3. Straight pin terminal Copper skin terminal 5. Aviation plug 6. Other terminals specified by customers
12	Special Needs: Spe	Customer-specified requirements: such as waterproof, anti-corrosion, wear-resistant, explosion-proof, etc.



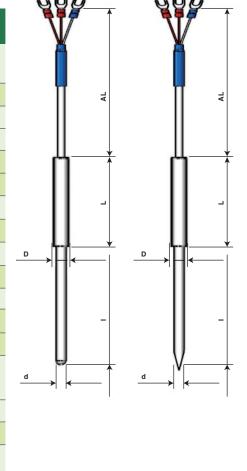
WZPT-100-x-F-CL-D*L-AL-T-W-S-XW-Spe Selection Examples: WZPT-100-1-PT100-A-4*30mm-2M-200°C-W3-S0-1



WRNT-191 Series

WZPT-191 Series

				29	20
Serial Number	Parameter	Detailed Description		1	
1	WRNT-191 Series WZPT-191 Series	WRNT: Thermocouple WZPT:Thermal resistance		Ì	
2	Quantity: x	1: Single 2: Double		- 1	Ī
3	Graduation number: F	Platinum Resistance: PT100、PT1000、PT200、PT500			
	0.0000000000000000000000000000000000000	Thermocouple :S/R/B/K/E/J/N/T			
4	Accuracy: CL	Platinum Resistance: A B C 1/3B		ľ	ጎ
4	Accuracy. OL	Thermocouple: I II III		- 1	1
5	Diameter: D(mm)	4 5 6 8 1020/Designation		-1	ı
6	Length: L(mm)	30-2000/Designation		-1	ı
7	Small Diameter: d(mm)	2 3 4 5 6 8 1020/Designation	D	_ †	1
8	Length: I(mm)	10-2000/Designation		- 1	ľ
9	Line Length: AL(M)	0.5M 1M 2M 3M/Designation		١	
10	Operating	Platinum Resistance:-200-850 € specified within			
10	Temperature: T	Thermocouple : -270-1820 C specified within		١	
11	Wiring: W	Platinum Resistance: W2: Two-wire system W4: Four-wire system W6: Six-wire system	<u>d</u>	→	.J
		Thermocouple: none			
12	Shielded Or Not: S	S0: Without Shield S1: With Shield			
13	End of line treatment: XW	Tinning 2. U-shaped fork 3. Straight pin terminal 4. Copper skin terminal 5. Aviation plug 6. Other terminals specified by customers			
14	Special Needs: Spe	Customer-specified requirements: such as waterproof, anti-corrosion, wear-resistant, explosion-proof, etc.			



WZPT-191-x-F-CL-D*L-d*I-AL-T-W-S-XW-Spe Selection Examples: WZPT-191-1-PT100-A-8*40mm-6*100mm-2M-200°C-W3-S0-1



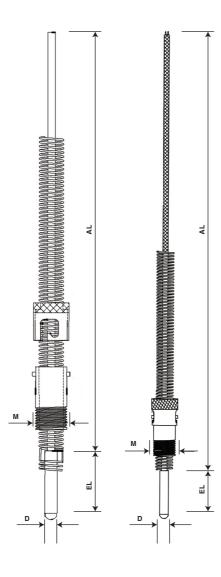
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WRNT-202 Series

WZPT-202 Series

Serial Number	Parameter	Detailed Description
1	WRNT-202 Series WZPT-202 Series	WRNT: Thermocouple WZPT: Thermal Resistance
2	Quantity: x	1:Single 2:Double
3		Platinum Resistance: PT100 PT1000 PT200 PT500
3	Graduation number: F	Thermocouple :S/R/B/K/E/J/N/T
,		Platinum Resistance: A B C 1/3B
4	Accuracy: CL	Thermocouple: I II III
5	Thread specification M	No M8 * 1.25 M10 * 1.5 G 1 / 2 Or specify
6	diameter D(mm)	2 3 4 5 6 8 10 20 or specified
7	Enter Length: EL(mm)	10-2000/Designation
8	Line Length: AL(M)	0.5M 1M 2M 3M/Designation
0	Operating	Platinum Resistance:-200-850 ℃ specified within
9	Temperature: T	Thermocouple : -270-1820 ℃ specified within
10	Wiring: W	Platinum Resistance: W2: Two-wire system W3: Three-wire system W4: Four-wire system W6: Six-wire system
		Thermocouple: none
11	Shielded Or Not: S	S0: Without Shield S1: With Shield
12	End of line treatment: XW	Tinning 2. U-shaped fork 3. Straight pin terminal Copper skin terminal 5. Aviation plug Other terminals specified by customers
13	Special Needs: Spe	Customer-specified requirements: such as waterproof, anti-corrosion, wear-resistant, explosion-proof, etc.



WZPT-202-x-F-CL-M-D*EL-AL-T-W-S-XW-Spe

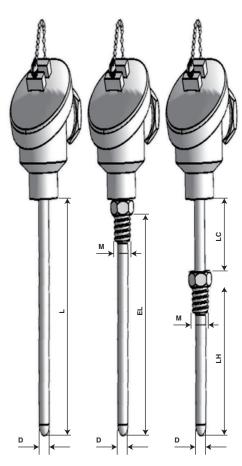
Selection Examples: WZPT-202-2-PT100-A-M10*1.5-6*27-2M-200°C-W3-S1-1



WZP Series

WRN Series

Serial Number	Parameter	Detailed Description
1	WZP Series WRN Series	Straight pipe without fixing method Threaded installation 3: With cold end thread
2	Quantity: x	1:Single 2:Double
3	Graduation number: F	Platinum Resistance: PT100、PT1000、PT200、PT500 Thermocouple:S/R/B/K/E/J/N/T
4	Accuracy: CL	Platinum Resistance: A B C 1/3B Thermocouple: I II III
5	Thread specification M	No M8 * 1.25 M10 * 1.5 G 1 / 2 Or specify
6	Diameter D(mm)	2 3 4 5 6 8 10 20 or specified
7	Cold End LC (mm)	None: 0 1~200mm or specified
8	Hot end LH (mm)	50~2000mm or specified
9	Operating Temperature: T	Platinum Resistance:-200-850°C specified within Thermocouple: -270-1820°C specified within
10	Wiring: W	Platinum Resistance: W2: Two-wire system W3: Three-wire system W4: Four-wire system W6: Six-wire system Thermocouple: none
11	Output type O	O1: Resistance signal O2: 4~20mA O3: 0~5V O4: 0~10V
12	Special Needs: Spe	Customer-specified requirements: such as waterproof, anti-corrosion, wear-resistant, explosion-proof, etc.



WRN-1-x-F-CL-M-D-LC/LH-T-W-O-Spe Selection Examples: WRN-1-1-PT100-A-M12*1.75-D8-50/100mm-200°C-W3-O



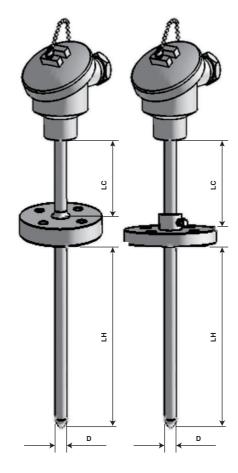
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WZP Series

WRN Series

Serial Number	Parameter	Detailed Description
1	WZP Series WRN Series	4 Flange
2	Quantity: x	1: Single 2: Double
3	Graduation number: F	Platinum Resistance: PT100、PT1000、PT200、PT500 Thermocouple:S/R/B/K/E/J/N/T
4	Accuracy: CL	Platinum Resistance: A B C 1/3B Thermocouple: I II III
5	Flange specification DN	DN25PN0.6 DN25PN1.0 DN25PN1.6 or designation
6	diameter D(mm)	2 3 4 5 6 8 10 20 or specified
7	Cold End LC (mm)	None: 0 1~200mm or specified
8	Hot end LH (mm)	50~2000mm or specified
9	Operating Temperature: T	Platinum Resistance:-200-850 C specified within Thermocouple: -270-1820 C specified within
10	Wiring: W	Platinum Resistance: W2: Two-wire system W4: Four-wire system W6: Six-wire system Thermocouple: none
11	Output type O	O1: Resistance signal O2: 4~20mA O3: 0~5V O4: 0~10V
12	Special Needs: Spe	Customer-specified requirements: such as waterproof, anti-corrosion, wear-resistant, explosion-proof, etc.



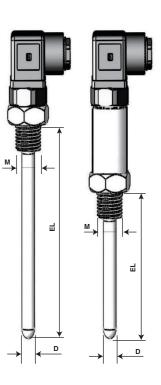
WZP-4-1-x-F-CL-DN-D-LC/LH-T-W-O-Spe

Selection Examples: WZP-4-1-PT100-A-DN25PN0.6-D8-50/100mm-200°C-W3-O1



YF-605 Series

Serial Number	Parameter	Detailed Description						
1	YF-605 series							
2	Number of branches X	1:single branch 2: double branch						
0	5	Platinum resistance:PT100 P	T1000 PT2OO PT500					
3	Divide number F	Thermocouple:S/R/B/K/E/J/N/	Т					
	A	Platinum Resistance: A B C 1	/ 3B					
4	Accuracy: CL	Thermocouple: I II III						
5	Thread specification M	No M8 * 1.25 M10 * 1.5 G 1 / 2 Or specify						
6	diameter D(mm)	2 3 4 5 6 8 10 20 or specified						
7	Hot end LH (mm)	50to 2000 mm or specified						
0	Operating	Platinum resistance: -200-850°C Within the scope specified						
8	Temperature: T	Thermocouple: -270-1820°C Within the scope specified						
9	Connection mode W	Clamp resistance: W2: second-line system W4: Four-line system	W3: Three system W6: six-line system					
		thermocouple:						
10	Output type O	01: Raw signal O3: 0-5V	O2: 4~20mA O4: 0-10V					
11	Plug CT	HSMP: Hersman joint straight pipe HSMN: Hersman joint thread HSMC: Hersman joint with cold end						
		HKP:Aerospace plug straight pipe HKN:Aerospace plug thread						
12	Special Needs: Spe	Plug parameters and customer specific special requirements						



YF-605-x-F-CL-M-D-EL-T-W-O-CT-Spe

Selection Examples: YF-605-1-PT100-A-M12*1.75-D8-100mm-200°C-W3-O2-HSMC





WZPT-206 Series

WRNT-206 Series

Serial Number	Parameter	Detailed Description						
1	WRNT-206 Series WZPT-206 Series							
2	Quantity: x	1:Single 2:Double						
3	Graduation number: F	Platinum Resistance: PT100 PT1000 PT200 PT500						
3	Graduation number. F	Thermocouple :S/R/B/K/E/J/N/T						
4	Accuracy Cl	Platinum Resistance: A B C 1/3B						
4	Accuracy: CL	Thermocouple: I II III						
5	Sizes Si	4.5*7*30mm 4*4*20mm D15*15mm (magnetism) 8*M4*5mm D15*6mm 15*10*6mm						
6	Line length AL(M)	0.5M 1M 2M 3M/designation						
7	Operating	Platinum Resistance:-200-850 C specified within						
/	Temperature: T	Thermocouple : -270-1820 C specified within						
8	Wiring: W	Platinum Resistance: W2: Two-wire system W4: Four-wire system W6: Six-wire system						
		Thermocouple: none						
9	Shielded Or Not: S	S0: Without Shield S1: With Shield						
10	End of line treatment: XW	Tinning 2. U-shaped fork 3. Straight pin terminal Copper skin terminal 5. Aviation plug Other terminals specified by customers						
11	Special Needs: Spe	Customer-specified requirements: such as waterproof, anti-corrosion, wear-resistant, explosion-proof, etc.						











WZPT-206-x-F-CL-Si-AL-T-W-S-XW-Spe

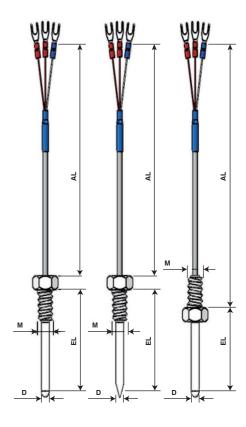
Selection Examples: WZPT-206-1-PT100-A-4.5*7*30mm-2M-200°C-W3-S0-1



WRNT-205 Series

WZPT-205 Series

Serial Number	Parameter	Detailed Description				
1	WRNT-205 Series WZPT-205 Series	WRNT: Thermocouple WZPT: Thermal Resistance				
2	Quantity: x	1: Single 2: Double				
3	Oud affect where F	Platinum Resistance: PT100 PT1000 PT200 PT500				
3	Graduation number: F	Thermocouple :S/R/B/K/E/J/N/T				
4	A OI	Platinum Resistance: A B C 1/3B				
4	Accuracy: CL	Thermocouple: I II III				
5	Thread specification M	No M8 * 1.25 M10 * 1.5 G 1 / 2 Or specify				
6	diameter D(mm)	2 3 4 5 6 8 10 20 or specified				
7	Enter Length: EL(mm)	10-2000/Designation				
8	Line Length: AL(M)	0.5M 1M 2M 3M/Designation				
9	Operating	Platinum Resistance:-200-850 C specified within				
9	Temperature: T	Thermocouple : -270-1820 ℃ specified within				
10	Wiring: W	Platinum Resistance: W2: Two-wire system W4: Four-wire system W6: Six-wire system				
		Thermocouple: none				
11	Shielded Or Not: S	S0: Without Shield S1: With Shield				
12	End of line treatment: XW	Tinning 2. U-shaped fork 3. Straight pin terminal Copper skin terminal 5. Aviation plug Other terminals specified by customers				
13	Special Needs: Spe	Customer-specified requirements: such as waterproof, anti-corrosion, wear-resistant, explosion-proof, etc.				



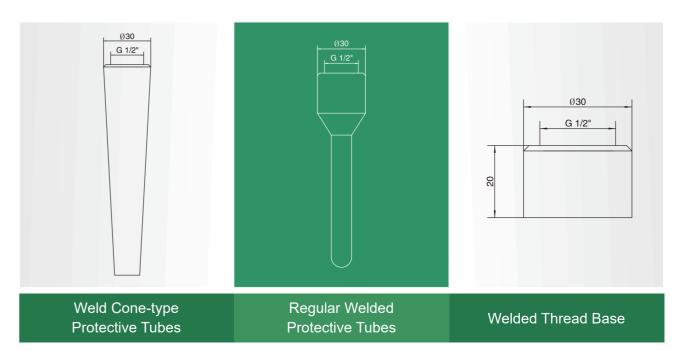
WZPT-205-x-F-CL-M-D*EL-AL-T-W-S-XW-Spe Selection Examples: WZPT-205-2-PT100-A-M10*1.5-6*27-2M-200°C-W3-S1-1



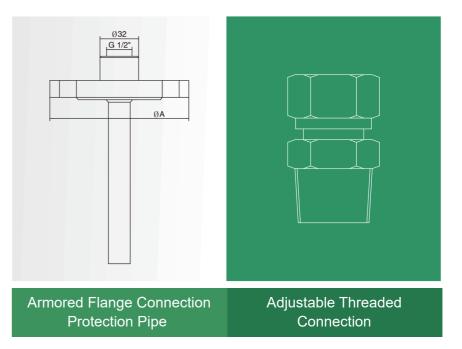


M12*1 Aviation Connection Fittings Ø14 35 Ø14 Straight head wiring 90° elbow wiring (line length 1m/2m/4m/5m) (line length 1m/2m/4m/5m) 52.5 Ø20 39 Ø**20** Straight head can be self-wired 90° elbows can be self-wired

Installation Accessories



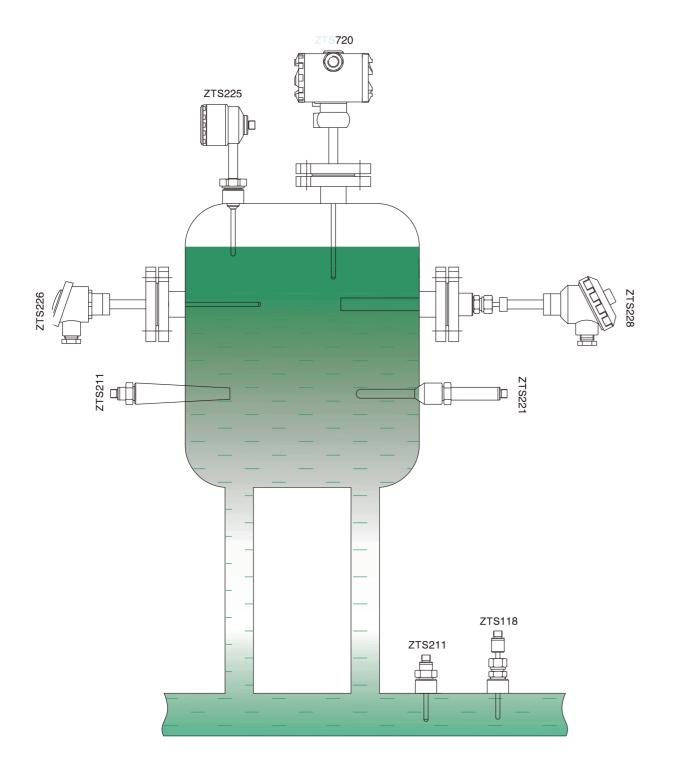
Temperature Welded Fittings



Temperature Connection Fittings

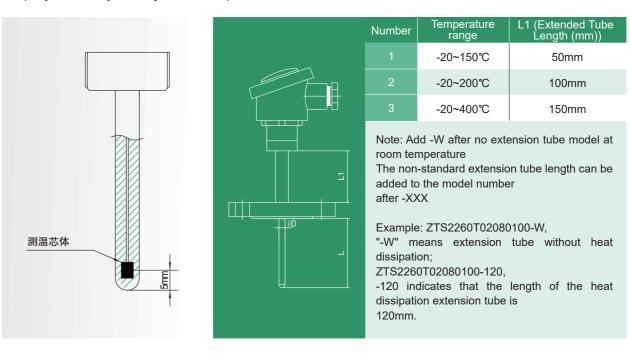


Industrial Type Installation Diagram

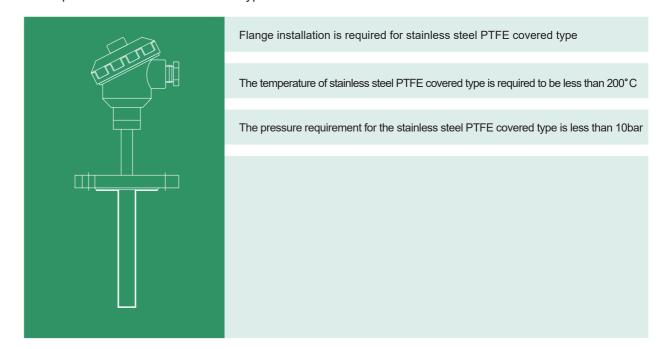


Other Notes for Industrial Type

- 1. Measure the core position and section view
- 2. Measuring the structural relationship between the temperature and the extension tube (only for the style with junction box)



3. Requirements for PTFE Covered Type





PT100 Thermal Resistance Table Corresponding to Temperature Resistance Values

	0	1	2	3	4	5	6	7	8	9
Temperature	Re	sistance(Ω)			Resistance	(Ω)		Resistance(Ω)		
0	0	100.39	100.78	101.17	101.56	101.95	102.34	102.73	103.12	103.51
10	103.9	104.29	104.68	105.07	105.46	105.85	106.24	106.63	107.02	107.4
20	107.79	108.18	108.57	108.96	109.35	109.73	110.12	110.51	110.9	111.29
30	11.67	112.06	112.45	112.83	113.22	113.61	114	114.38	114.77	115.15
40	115.54	115.93	116.31	116.7	117.08	117.47	117.86	118.24	118.63	119.01
50	119.4	119.78	120.17	120.55	120.94	121.32	121.71	122.09	122.47	122.86
60	123.24	123.63	124.01	24.39	124.78	125.16	125.54	125.93	126.31	126.69
70	127.08	127.46	127.84	128.22	128.61	128.99	129.37	129.75	130.13	130.52
80	130.9	131.28	131.66	132.04	132.42	132.8	133.18	133.57	133.95	134.33
90	134.71	135.09	135.47	135.85	136.23	136.61	136.99	137.37	137.75	138.13
100	138.51	138.88	139.26	139.64	140.02	140.4	140.78	141.16	141.54	141.91
110	142.29	142.67	143.05	143.43	143.8	144.18	144.56	144.94	145.31	145.69
120	146.07	146.44	146.82	147.2	147.57	147.95	148.33	148.7	149.08	149.46
130	149.83	150.21	150.58	150.96	151.33	151.71	152.08	152.46	152.83	153.21
140	153.58	153.96	154.33	154.71	155.08	155.46	155.83	156.2	156.58	156.95
150	157.33	157.7	158.07	158.45	158.82	159.19	159.56	159.94	160.31	160.68
160	161.05	161.43	161.8	162.17	162.54	162.91	163.29	163.66	164.03	164.4
170	164.77	165.14	165.51	165.89	166.26	166.63	167	167.37	167.74	168.11
180	168.48	168.85	169.22	169.59	169.96	170.33	170.7	171.07	171.43	171.8
190	172.17	172.54	172.91	173.28	173.65	174.02	174.38	174.75	175.12	175.49
200	175.86	176.22	176.59	176.96	177.33	177.69	178.06	178.43	178.79	179.06
210	179.53	179.89	180.26	180.63	180.99	181.36	181.72	82.09	182.46	182.82
220	183.19	183.55	183.92	184.28	184.65	185.01	185.38	185.74	186.11	186.47
230	186.84	187.2	187.56	187.93	188.29	188.66	189.02	189.38	189.75	190.1
240	190.47	190.84	191.2	191.56	191.92	192.29	192.65	193.01	193.37	193.74
250	194.1	194.46	194.82	195.18	195.55	195.91	196.27	196.63	196.99	197.35
260	197.71	198.07	198.43	198.79	199.15	199.51	199.87	200.23	200.59	200.95
270	201.31	201.67	202.03	202.39	202.75	203.11	203.47	203.83	204.19	204.55
280	204.9	205.26	205.62	205.98	206.34	206.7	207.05	207.41	207.77	208.13
290	208.48	208.84	209.2	209.56	209.91	210.27	210.63	210.98	211.34	211.7
300	212.05	212.41	212.76	213.12	213.48	213.83	214.19	214.54	214.9	215.25
310	215.61	215.96	216.32	216.67	217.03	217.38	217.74	218.09	218.44	218.8
320	219.15	219.51	219.86	220.21	220.57	220.92	221.27	221.63	221.98	222.33

PT100 Thermal Resistance Table Corresponding to Temperature Resistance Values

	0	1	2	3	4	5	6	7	8	9	
Temperature	Re	sistance (Ω)			Resistance	(Ω)		Resistance (Ω)			
330	222.68	223.04	223.39	223.74	224.09	224.45	224.8	225.15	1225.5	225.85	
340	226.21	226.56	226.91	227.26	227.61	227.96	228.31	228.66	229.02	229.37	
350	229.72	230.07	230.42	230.77	231.12	231.47	231.82	232.17	232.52	232.87	
360	233.21	233.56	233.91	234.26	234.61	234.96	235.31	235.66	236	236.35	
370	236.7	237.05	237.4	237.74	238.09	238.44	238.79	239.13	239.48	239.83	
380	240.18	240.52	240.87	241.22	241.56	241.91	242.26	242.6	242.95	243.29	
390	243.64	243.99	244.33	244.68	245.02	245.37	245.71	246.06	246.4	246.75	
400	247.09	247.44	247.78	248.13	248.47	248.81	249.16	249.5	245.85	250.19	
410	250.53	250.88	251.22	251.56	251.91	252.25	252.59	252.93	253.28	253.62	
420	253.96	254.3	254.65	254.99	255.33	255.67	256.01	256.35	256.7	257.04	
430	257.38	257.72	258.06	258.4	258.74	259.08	259.42	259.76	260.1	260.44	
440	260.78	261.12	261.46	261.8	262.14	262.48	262.82	263.16	263.5	263.84	
450	264.18	264.52	264.86	265.2	265.53	265.87	266.21	26655	266.89	267.22	
460	267.56	267.9	268.24	268.57	268.91	269.25	269.59	269.92	270.26	270.6	
470	270.93	271.27	271.61	271.94	272.28	272.61	272.95	273.29	273.62	273.96	
480	274.29	274.63	274.96	275.3	275.63	275.97	276.3	276.64	276.97	277.31	
490	277.64	277.98	278.31	278.64	278.98	279.31	279.64	279.98	280.31	280.64	
500	280.98	281.31	281.64	281.98	282.31	282.64	282.97	283.31	283.64	283.97	
510	284.3	284.63	284.97	285.3	285.63	285.96	286.29	286.62	286.85	287.29	
520	287.62	287.95	288.28	288.61	288.94	289.27	289.6	289.93	290.26	290.59	
530	290.92	291.25	291.58	291.91	292.24	292.56	292.89	293.22	293.55	293.88	
540	294.21	294.54	294.86	295.19	295.52	295.85	296.18	296.5	296.83	297.16	
550	297.49	297.81	298.14	298.47	298.8	299.12	299.45	299.78	300.1	300.43	
560	300.75	301.08	301.41	301.73	302.06	302.38	302.71	303.03	303.36	303.69	
570	304.01	304.34	304.66	304.98	305.31	305.63	305.96	306.28	306.61	306.93	
580	307.25	307.58	307.9	308.23	308.55	308.87	309.2	309.52	309.84	310.16	
590	310.49	310.81	311.13	311.45	311.78	312.1	312.42	312.74	313.06	313.39	
600	313.71	314.03	314.35	314.67	314.99	315.31	315.64	315.96	316.28	316.6	
610	316.92	317.24	317.56	317.88	318.2	318.52	318.84	319.16	319.48	319.8	
620	320.12	320.43	320.75	321.07	321.39	321.71	322.03	322.35	322.67	322.98	
630	323.3	323.62	323.94	324.26	324.57	324.89	325.21	325.53	325.84	326.16	
640	326.48	326.79	327.11	327.43	327.74	328.06	328.83	328.69	329.01	329.32	
650	329.64	329.96	330.27	330.59	330.9	331.22	331.53	331.85	332.16	332.48	
660	332.79										

 \sim 29 \sim 30



PT100 Thermal Resistance Table Corresponding to Temperature Resistance Values

	0	1	2	3	4	5	6	7	8	9		
Temperature	Res	sistance (Ω)			Resistance (Ω)				Resistance (Ω)			
-200	18.52											
-190	22.83	22.4	21.97	21.54	21.11	20.68	20.25	19.82	19.38	18.95		
-180	27.1	26.67	26.24	25.82	25.39	24.97	24.54	24.11	23.68	23.25		
-170	31.34	30.91	30.49	30.07	29.64	29.22	28.8	28.37	27.95	27.52		
-160	35.54	35.12	34.7	34.28	33.86	33.44	33.02	32.6	32.18	31.76		
-150	39.72	39.31	38.89	38.47	38.05	37.64	37.22	36.8	36.38	35.96		
-140	43.88	43.46	43.05	42.63	42.22	41.8	41.39	40.97	40.56	40.14		
-130	48.00	47.59	47.18	46.77	46.36	45.94	45.53	45.12	44.7	44.29		
-120	52.11	51.7	51.29	50.88	50.47	50.06	49.65	49.24	48.83	48.42		
-110	56.19	55.79	55.38	54.97	54.56	54.15	53.75	53.34	52.93	52.52		
-100	60.26	59.85	59.44	59.04	58.63	58.23	57.82	57.41	57.01	56.6		
-90	64.3	63.9	63.49	63.09	62.68	62.28	61.88	61.47	61.07	60.66		
-80	68.33	67.92	67.52	67.12	66.72	66.31	65.91	65.51	65.11	64.7		
-70	72.33	71.93	71.53	71.13	70.73	70.33	69.93	69.53	69.13	68.73		
-60	76.33	75.93	75.53	75.13	74.73	74.33	73.93	73.53	73.13	72.73		
-50	80.31	79.91	79.51	79.11	78.72	78.32	77.92	77.52	77.12	76.73		
-40	84.27	83.87	83.48	83.08	82.69	82.29	81.89	81.5	81.1	80.7		
-30	88.22	87.83	87.43	87.04	86.64	86.25	85.85	85.46	85.06	84.67		
-20	92.16	91.77	91.37	90.98	90.59	90.19	89.8	89.4	89.01	88.62		
-10	96.09	95.69	95.3	94.91	94.52	94.12	93.73	93.34	92.95	92.55		
0	100	99.61	99.22	98.83	98.44	98.04	97.65	97.26	96.87	96.48		