Main specifications

▼ Process connection

Mount type: Fixed/Movable Material: SS304/SS316 Thread: M20x1.5(M), G1/2" (M), 1/2" NPT, flange DN50PN10-PN40, flange DN25PN10

▼Electrical connection

Aluminum-alloy terminal, 2 cable entry, M20*1.5(F), red body, white cover

▼Cable entry protection

Please refer to electrical connection select instruction

▼Temperature range

Min.: -50°C Max.: 400°C

Please refer to temperature range selection instruction

▼Applicable media

Liquid and gas that compatible with connection's material

▼Stem insertion length

50 to 3000mm

The smallest insertion length should 8 times outer diameter of thermal protection tube, the end of probe should reach the pivot of the tube

▼Outer diameter

6/7/8/9/10 mm

▼Extension tube (option)

Material: SS304

Length: 50/100/150/200mm

▼Operating temperature

- -40 to 85°C
- -20 to 70°C (with LCD display)

▼Storage temperature

- -40 to 100°C,
- -40 to 85°C (with LCD display)

▼Humidity

0-95%

▼Protection level

IP67

Other Specifications

▼Housing

Aluminum alloy Waterproof design

▼Output Signal

4~20mA (two-wire)

▼Power supply

Standard: 10-30VDC

▼Power consumption

≤500mW@24VDC, 20.8mA

▼Insulation resistance

- $> 20M\Omega$ (@100VDC)
- ▼ Measuring elements

Pt100 RTD

▼Accuracy

±0.5% URL (@20±5°C) (Including linearity, hysteresis and repeatability)

▼Stability

<±0.05% F.S./year or

<0.1°C/year

▼Temperature effect

≤±0.005% URL/°C (@22°C)

▼ Vibration effect

4q/2...100Hz

Integrated Temperature Transmitter Model: AT200-WRT

Introduction

AT200-WRT integrated temperature transmitter adopts ASIC&SMT signal transmitting module, optional built-in back light and button operation LCD display module. The integrated transient voltage terminal satisfy 4 grade standard (differential-mode voltage 2000V, common-mode voltage 4000V), suitable for harsh surge voltage occasions. It provides a flexible and reliable solution for any temperature measurement applications.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

Features

- OEM service
- Thermal-resistance temperature sensor
- Fixed/Movable mount type
- Fast response time: ≤ 200ms
- Easy installation
- Stem length from 50mm to 5000mm
- Outer diameter from 6mm to 10mm
- Install a LCD display module (option)



Temperature range select instruction

Temperature range	-50 to 400°C, minimum measurement range 100°C			
Temperature unit The temperature unit can be replaced by °F or K.				
Adjust requirements	Lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, smallest calibration span ≤ URV-LRV ≤ upper range limit.			

Pressure connection select instruction

Item	Code	Description			
Mounting type G		Fixed process connection mounting			
	Н	Movable process connection mounting			
Material type	4	5304			
	6	SS316			
Process connection	M01	M20x1.5 (M)			
specifications	G01	G1/2" (M)			
	R01	1/2" NPT			
	H01	Flange DN50 PN10-PN40			
	H02	Flange DN25 PN10			

Electrical connection select instruction

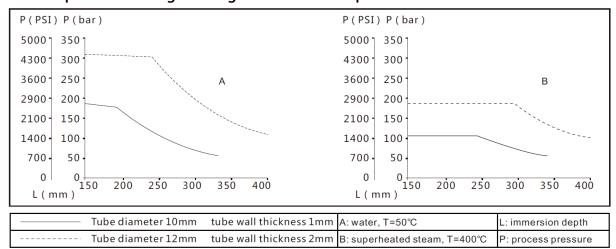
Item	Code	Description		
Electrical connection	Aluminum-alloy terminal, 2 cable entry, M20x1.5, red body, white cover			
	R1	Waterproof connector M20 x 1.5 one side, blind plug (another side), PVC material, 6-8mm diameter cable only, IP67		
Cable entry protection	R2	Flameproof, 1/2" NPT (F) , one side, blind plug (another side), stainless steel material, 6-8mm diameter cable only, IP67		
	R3	Flameproof, M20x1.5 (F), one side, blind plug (another side), stainless steel material, 6-8mm diameter cable only, IP67		

Stem select instruction

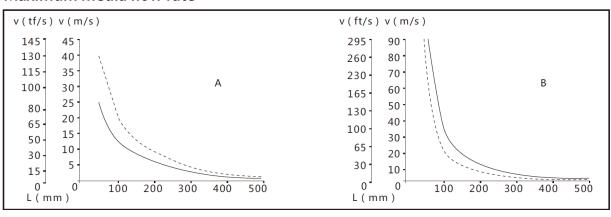
Item	Code	Description			
	D1	Diameter: 6mm, probe material is the same as process connection's material (SS304 or SS316)			
	D2	Diameter: 7mm, probe material is the same as process connection's material (SS304 or SS316)			
Outer diameter	D3	Diameter: 8mm, probe material is the same as process connection's material (SS304 or SS316)			
	D4	Diameter: 9mm, probe material is the same as process connection's material (SS304 or SS316)			
	D5	Diameter: 10mm, probe material is the same as process connection's material (SS304 or SS316)			
Stem insertion length	LXXXX	Custom stem length: 50 to 3000mm Order sample: 80mm = L0080, 150mm = L0150			



Process pressure changes along with media temperature chart

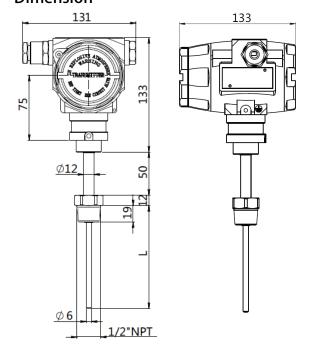


Maximum media flow rate

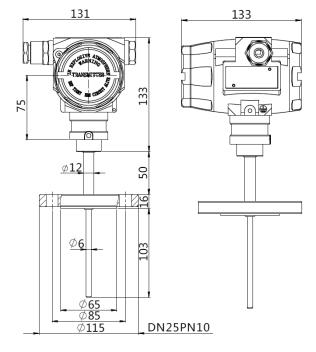


	 Tube diameter 10 mm	tube wall thickness 1mm	A: water, T=50°C	L: immersion depth
ĺ	 Tube diameter 12mm	tube wall thickness 2mm	B: superheated steam, T=400℃	V: flow rate

Dimension

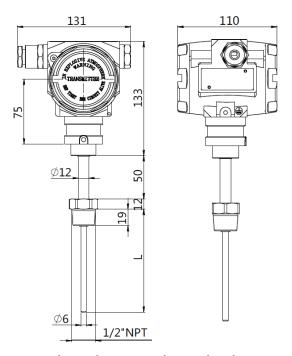


Thread type with display

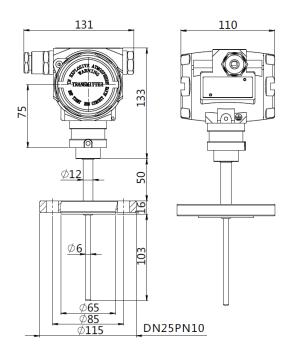


Flange type with display



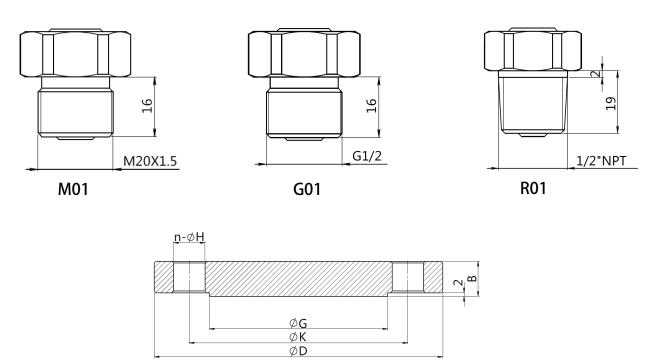


Thread type without display



Flange type without display

Process connection dimension



Standard	Specification	Outer dia. (ØD)	Thickness (B)	Hole circle (øK)	Raised-face dia. (øG)	Hole dia. (øH)	Number (n)
HG/T20592-2009	DN50PN10-PN40	165	20	125	102	18	4
HG/T20592-2009	DN25PN10-PN40	115	16	85	68	14	4

H01 & H02

Unit: mm

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How to Order

Item	Parameters	Code	
	Model	AT200-WRT	Integrated Temperature Transmitter
Sensor	Separator	Code	Detailed specifications as following
	Measuring element	Pt	Pt100RTD
Electrical connection	Separator	Code	Detailed specifications as following
	Electrical connection	T1	Aluminum-alloy terminal, 2 cable entry, M20x1.5, red body, white cover
		R1	Waterproof connector M20 x 1.5 one side, blind plug (another side), PVC material, 6-8mm diameter cable only, IP67
	Cable entry protection	R2	Flameproof, 1/2" NPT (F), one side, blind plug (another side), stainless steel material, 6-8mm diameter cable only, IP67
		R3	Flameproof, M20x1.5 (F), one side, blind plug (another side), stainless steel material, 6-8mm diameter cable only, IP67
Output	Separator	Code	Detailed specifications as following
	Output signal	F	4~20mA two wire, power supply: 10-30VDC
		С	LCD display
	Display	Α	Without LCD display
Extension pipe	Separator	Code	Detailed specifications as following
		Q1	None (suitable temperature: -40 to 85°C)
		Q2	Material: SS304, length: 50mm, outer diameter: Ø12
	Extension	Q3	Material: SS304, length: 100mm, outer diameter: Ø12
	pipe length	Q4	Material: SS304, length: 150mm, outer diameter: Ø12
		Q5	Material: SS304, length: 200mm, outer diameter: Ø12
Process connection	Separator	Code	Detailed specifications as following
commedian	Mounting	G	Fixed process connection mounting
	type	Н	Movable process connection mounting
		4	SS 304
	Material	6	SS 316
		M01	M20x1.5 (M)
		G01	G1/2" (M)
	Specification	R01	1/2" NPT
	'	H01	Flange DN50 PN10-PN40
		H02	Flange DN25 PN10
Stem	Separator	Code	Detailed specifications as following
	Outer diameter	D1	Diameter: 6mm, probe material is the same as process connection's material (SS304 or SS316)
		D2	Diameter: 7mm, probe material is the same as process connection's material (SS304 or SS316)
		D3	Diameter: 8mm, probe material is the same as process connection's material (SS304 or SS316)
		D4	Diameter: 9mm, probe material is the same as process connection's material (SS304 or SS316)
		D5	Diameter: 10mm, probe material is the same as process connection's material (SS304 or SS316)
	Insertion length	LXXXX	Custom stem length: 50 to 3000mm Order sample: 80mm = L0080, 150mm = L0150
Additional option	Separator	Code	Detailed specifications as following
	Calibration report	Q1	Calibration report

Ordering Example: <u>AT200-WRT</u> - <u>Pt</u> - <u>T1</u> - <u>R1</u> - <u>F - A - Q1 - G - 4 - R01 - D1 - L - L0050</u>