Main Specifications

▼ Mounting type

Fixed thread / active thread connection mounting

▼Connection

Material: SS304 / SS316 M20*1.5 male thread / G1/2" male thread 1/2" NPT male thread Other specification is available made-to-order

▼Electrical connector

Aluminum alloy junction box Outlet female thread: M20*1.5 Applicable wire diameter: Ф6-8mm

▼Temperature range

-50 to 400°C

Min. measurement range: 100°C

▼Stem

Outer diameter: $\Phi6 / 8 / 10 / 12 / 16$ mm Material: Same as material of connection Length:

Customized, 50...3000mm Install a thermowell (Option)

▼Applicable media

Liquid and gas that compatible with material of connection

▼Ambient temperature

Standard: -40 to 85°C With LCD display: -20 to 70°C

▼Storage temperature

Standard: -40 to 100°C With LCD display: -40 to 85°C

▼Ambient humidity

0...95% R.H.

▼Protection level

IP67

Other Specifications

- ▼Analog signal output
- 4-20mA
- ▼ Digital signal output (Option)

RS485

▼ Screen display (Option)

5-digit LCD display with backlight

Size: 39 x 23 mm

▼Wiring protection

M20*1.5 waterproof connector

▼Extension tube (Option)

Outer diameter: Φ 12m Material: SS316 Length:

50 / 100 / 150 / 200mm

▼ Measuring elements

Pt100

▼Power supply

10~30VDC

- **▼**Stability
- ±0.05% F.S. / year
- **▼**Accuracy
- ±0.5% F.S. (Standard)
- ▼Temp. response time
- ≤10s@ water flow 0.4m/s
- ▼Insulation resistance
- V Ilisulation resistar
- ≥20MΩ, 100VDC
- **▼**Power consumption
- ≤500Mw@24VDC, 20.8Ma
- ▼Weight

About 1.29kg

▼Other requests (Option)

Third party notarized documents
Inspection report

Tag

RS485 output

Connection material: SS316

Install a thermowell

Active thread

Flameproof, 1/2" NPT (F) one side, stainless steel blind plug

another side

Flameproof, M20x1.5 (F) one side, stainless steel blind plug

another side

Degreasing treatment

Wetted part electrolytic

polishing

Integrated Digital Temperature Transmitter (Thread Connected Type) Model: ITT-L200 (T) Introduction

ITT-L200 (T) series digital temperature transmitter adopts PT100 temperature sensor, LCD display is optional. It adopts an integrated transient voltage terminal module and can be used in severe surge voltage situations. It is suitable for various industrial temperature measurement and transmission requirements.









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

- Thread connection type, active thread is optional
- Customized stem length and outer diameter, and install a thermowell is available
- Wide temp. measurement range: -50 to 400°C
- Output signal: 4-20mA
- Temperature measuring element adopts Pt100, accuracy 0.5%F.S.
- User friendly interface, parameters are easy to set and its value could show immediately when it with LCD display
- Protection level: IP67
- Digital RS485 output is available

Damping time

ltem	Function description				
Total damping time constant	Equal to the sum of damping time of amplifier and sensor capsule				
Reaction time	≤10s@water flow 0.4m/s, outer diameter Ф6mm				

Reaction time—Thermal protection tube

Outer diameter	Reaction time	Reducing pipe (5.3mm)	Cone-shaped tube (6.6mm or 9mm)	Straight tube
10mm	t50	7.5s	11s	18s
(wall thickness 1mm)	t90	21s	37s	55s
12mm	t50	7.5s	-	18s
(wall thickness 1mm)	t90	21s	-	55s
16mm	t50	-	11s	38s
(wall thickness 1mm)	t90	-	37s	125s

Mounting requirements

ltem	Function description			
Mounting direction	None			
Mounting position	Pipe, tube or others			
Insertion length* The smallest insertion length should 8 times outer diameter of thermal protection tube, and the end of the probe should reach or surpass the pivot of the tube.				
*Please consider technique data and process connection parameters (such as medium flow rate, process pressure				

and so on) before confirm the insertion length of the transmitter.

EMC environment

No.	Test items	Basic standards	Test conditions	Performance level
1	Radiated interference (Case)	GB/T9254/CISPR22	30MHz-1000MHz	OK
2	Conducted interference (DC power port)	(₃ R/19254/(1SPR22)		ОК
3	Electrostatic discharge immunity test (ESD)	GB/T17626.2/IEC61000-4-2	4kV (Contact), 8kV (Air)	B (*2)
4	Immunity to radio frequency EM-fields	GB/T17626.3/IEC61000-4-3	10V/m (80MHz-1GHz)	A (*1)
5	Power frequency magnetic field immunity test	GB/T17626.8/IEC61000-4-8	30A/m	A (*1)
6	Electrical fast transient / Burst immunity test	GB/T17626.4/IEC61000-4-4	2kV (5/50ns, 100kHz)	B (*2)
7	Surge immunity requirements	GB/T17626.5/IEC61000-4-5	1kV (Line to line) 2kV (Line to ground) (1.2us/50us)	B (*2)
8	Immunity to conducted disturbances induced by radio frequency fields	GB/T17626.6/IEC61000-4-6	3V (150kHz-80MHz)	A (*1)

^{(*1):} Performance level A: The performance within limits of normal technical specifications.

Wiring protection

Thread specifications	Material	Applicable wire diameter	Protection level	
M20*1.5 waterproof connector	PVC	6 0 000	IP67	
1/2" NPT flameproof	Stainless	6-8mm		
M20*1.5 flameproof	steel			





Flameproof

^{(*2):} Performance level B: Temporary reduction or loss of functionality or performance, it can be restore itself. The actual operating conditions, storage and data will not be changed.



How to order

ITT-L2	200 (T)		Integrated Digital Temperature Transmitter (Thread Connected Type)							
		Code	Connection							
		M20	M20 x 1.5 male thread							
		4G	G1/2" male thread							
		4N	1/2" NPT male thread							e thread
		0	Others						i	
	ı		Cod	Code Temperature range						erature range
			Cust	om					-50	to 400°C
					Code Stem length					Stem length
					Cus	tom				50~3000mm
							Code			Stem outer diameter
							6mm			6mm
							8mm 10mm			8mm 10mm
							12mm			12mm
									16mm	
										Extension tube length
						N No				
								50mm		50mm
								100mm		100mm
								150mm 200mm		150mm 200mm
								200111111	Code	Screen display
									N	No
									Υ	Yes
ITT-L2	200 (T)	4N	0~10	0°C	100	mm	6mm	N	Υ	Order example: ITT-L200 (T)-4N-0~100°C-100mm-6mm-N-Y