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: Φ6-8mm

▼Temperature range

-50 to 400°C Min. measurement range: 100°C

▼ Stem

Outer diameter: Φ6 / 8 / 10 / 12 / 16mm 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 protectionM20*1.5 waterproof connector

▼Extension tube (Option)

Outer diameter: Φ12m 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

≥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 Φ6mm			

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	Nounting position Pipe, tube or others				
Insertion length* The smallest insertion length should 8 times outer diameter of thermal protection tub 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

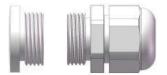
Test items	Basic standards	Test conditions	Performance level
Radiated interference (Case)	GB/T9254/CISPR22	30MHz-1000MHz	OK
Conducted interference (DC power port)	GB/T9254/CISPR22	0.15MHz-30MHz	ОК
Electrostatic discharge immunity test (ESD)	GB/T17626.2/IEC61000-4-2	4kV (Contact), 8kV (Air)	B (*2)
Immunity to radio frequency EM-fields	GB/T17626.3/IEC61000-4-3	10V/m (80MHz-1GHz)	A (*1)
Power frequency magnetic field immunity test	GB/T17626.8/IEC61000-4-8	30A/m	A (*1)
Electrical fast transient / Burst immunity test	GB/T17626.4/IEC61000-4-4	2kV (5/50ns, 100kHz)	B (*2)
Surge immunity requirements	GB/T17626.5/IEC61000-4-5	1kV (Line to line) 2kV (Line to ground) (1.2us/50us)	B (*2)
Immunity to conducted disturbances induced by radio frequency fields	GB/T17626.6/IEC61000-4-6	3V (150kHz-80MHz)	A (*1)
	Radiated interference (Case)Conducted interference(DC power port)Electrostatic discharge immunity test(ESD)Immunity to radio frequency EM-fieldsPower frequency magnetic fieldimmunity testElectrical fast transient / Burstimmunity testSurge immunity requirementsImmunity to conducted disturbancesinduced by radio frequency fields	Radiated interference (Case)GB/T9254/CISPR22Conducted interference (DC power port)GB/T9254/CISPR22Electrostatic discharge immunity test (ESD)GB/T17626.2/IEC61000-4-2Immunity to radio frequency EM-fields immunity testGB/T17626.3/IEC61000-4-3Power frequency magnetic field immunity testGB/T17626.8/IEC61000-4-8Electrical fast transient / Burst immunity testGB/T17626.4/IEC61000-4-4Surge immunity requirementsGB/T17626.5/IEC61000-4-5Immunity to conducted disturbances induced by radio frequency fieldsGB/T17626.6/IEC61000-4-6	Radiated interference (Case)GB/T9254/CISPR2230MHz-1000MHzConducted interference (DC power port)GB/T9254/CISPR220.15MHz-30MHzElectrostatic discharge immunity test (ESD)GB/T17626.2/IEC61000-4-24kV (Contact), 8kV (Air)Immunity to radio frequency EM-fields immunity testGB/T17626.3/IEC61000-4-310V/m (80MHz-1GHz)Power frequency magnetic field

(*1): Performance level A: The performance within limits of normal technical specifications. (*2): Performance level B: Temporary reduction or loss of functionality or performance, it can be restore itself. The

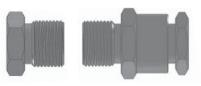
actual operating conditions, storage and data will not be changed.

Wiring protection

Thread specifications	Material	Material Applicable wire diameter		
M20*1.5 waterproof connector	PVC	6.9mm		
1/2″ NPT flameproof	Stainless	6-8mm	IP67	
M20*1.5 flameproof	steel			



Waterproof connector



Flameproof

How to order

ITT-L200 (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							
		0		Others							
	L		Co	Code					Temperature range		
			Cust	Custom					-50) to 400°C	
					Co	Code Stem length					
					Cus	tom				50~3000mm	
							Code			Stem outer diameter	
							6mm			6mm	
							8mm 10mm			8mm	
										10mm 12mm	
							12mm 16mm			16mm	
								Code		Extension tube length	
								Ν		No	
								50mm		50mm	
								100mm		100mm	
								150mm 200mm		150mm 200mm	
								20011111	Code	Screen display	
									N	No	
									Y	Yes	
ITT-L200 (1	Г)	4N	0~10	0°C	100	mm	6mm	N	Y	Order example: ITT-L200 (T)-4N-0~100°C-100mm-6mm-N-Y	