

## Main Specifications

## ▼ Mounting type

Fixed thread / active thread connection mounting

## ▼ Connection

HG/T20592-2009DN50PN10  
HG/T20592-2009DN25PN10

Other specifications are available made-to-order  
Material: SS304

## ▼ Electrical connector

Aluminum alloy junction box  
Outlet female thread: M20\*1.5  
Applicable wire diameter:  
Φ6-8mm

## ▼ Temperature range

-50 to 400°C  
Min. temp. scale 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

## ▼ Case

Stainless steel

## ▼ Screen display (Option)

5-digit LCD display with backlight  
39 x 23 mm

## ▼ Wiring protection

M20\*1.5 waterproof connector

## ▼ Extension tube

Outer diameter: Φ12mm

Material: SS316

Length:

50 / 100 / 150 / 200mm

## ▼ Output signal

4-20mA

## ▼ Measuring elements

Pt100

## ▼ Accuracy

±0.2/0.5% F.S.

## ▼ Temp. response time

≤10s@ water flow 0.4m/s

## ▼ Power supply

10...30VDC

## ▼ 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

Flameproof, 1/2" NPT (F) one

side, stainless steel blind plug

Flameproof, M20\*1.5 (F) one

side, stainless steel blind plug  
another side

Degreasing treatment

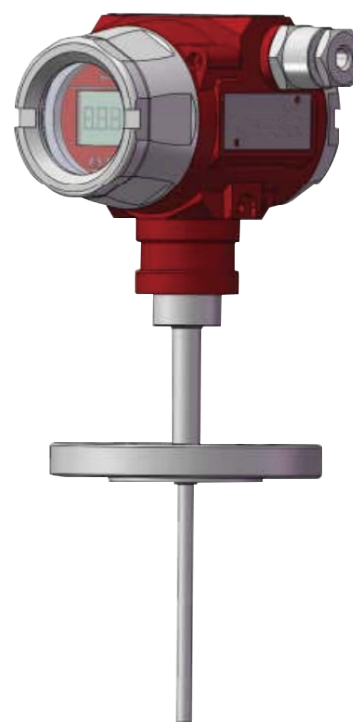
Wetted part electrolytic

polishing

## Integrated Digital Temperature Transmitter (Flange Connected Type) Model: ITT-L200 (F)

### Introduction

ITT-L200 (F) 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

- Flange connected 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 elements adopts Pt100, accuracy 0.5%F.S.
- User friendly interface
- Protection level: IP67
- RS485 output is available

## Damping time

Item	Function
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 $\phi$ 6mm

## Reaction time—Thermal protection tube

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

## Mounting requirements

Item	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

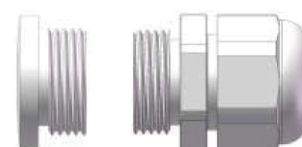
No.	Test items	Basic standards	Test conditions	Performance level
1	Radiated interference (Case)	GB/T9254/CISPR22	30MHz-1000MHz	OK
2	Conducted interference (DC power port)	GB/T9254/CISPR22	0.15MHz-30MHz	OK
3	Electrostatic discharge immunity test (ESD)	GB/T17626.2/IEC61000-4-2	4kV (Contact), 8kV (Air)	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.

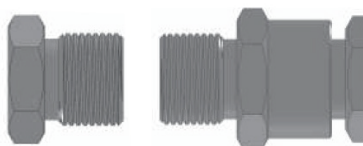
(\*2): Performance level B: Temporary reduction or loss of functionality or performance, it can be restore itself. The actual operating conditions, storage and data will not be changed.

## Wiring protection

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



Waterproof connector



Flameproof

## How to order

ITT-L200(F)		Integrated Digital Temperature Transmitter (Flange Connected Type)					
Code	Connection						
H1	HG/T20592-2009DN50PN10						
H2	HG/T20592-2009DN25PN10						
O	Others						
Code	Temperature range						
Custom	-50 to 400°C						
Code	Stem length						
Custom	0...3000mm						
Code	Stem outer diameter						
6mm	6mm						
8mm	8mm						
10mm	10mm						
12mm	12mm						
16mm	16mm						
Code	Extension tube length						
N	No						
50mm	50mm						
100mm	100mm						
150mm	150mm						
200mm	200mm						
Code	Screen display						
N	No						
Y	Yes						
ITT-L200(F)	H1	0~100°C	100mm	6mm	N	Y	Order example: ITT-L200(F)-H1-(0~100°C)-100mm-6mm-N-Y