

# HDT-500 Temperature Transmitter

## Product description

The HDT-500 integrated temperature transmitter uses the resistance value of platinum resistance to change with temperature and shows a certain functional relationship to measure the temperature of the measured medium. The product is composed of temperature sensor, compensation circuit and conversion circuit. It has the advantages of stable performance, high sensitivity and strong reliability. The product adopts a fully welded structure and a high-strength shell, which is widely used in automatic temperature measurement and control systems such as petroleum machinery, chemical machinery, pumps and compressors, electric power, boilers, and natural gas.

## Parameters

Range	-200℃~600℃
Power supply	24V
Output signal	4~20mA, 0-10V, RS485
Accuracy	0.5%
Sensor	Pt100
Insulation	100MΩ/250VDC
Stability	≤0.2%FS/Year
Respond time	≤30s
Dial size	Φ8mm (Customizable)
EX-proof	Exia II CT6
Protection	IP65
Working environment	(1) Ambient temp: -40℃~85℃
	(2) Relative humidity: 0~95%RH
	(3) Vibration: f≤55HZ, Amplitude<0.15mm
	(4) Power consumption: <0.5W



## Features

- Stainless steel shell, impact & high pressure resistance.
- High precision & stability, strong anti-interference ability.
- Selectable connection size and output signals.
- Ex proof: Exia II CT6.
- Easy to install, strong stability.
- Fast respond.

## Application

It is used to measure the temperature of liquid, steam or solid surface in the range of -50~400℃ in various industrial processes. It can be used with display instruments, recording instruments and various control systems.

## Structure

Type	J5: Hessman	J14: Direct lead	J15: Hessman with display
Size Unit: mm			

**Note:** L is the insertion depth (without thread); the diameter is φ8. (customizable).

## Order guide

Model	Temperature transmitter		
Code	Temperature range		
	Based on your requirement		
Code	Thread (Customizable)		
C1	M20×1.5		
C22	M16×1.5		
C25	M27×2		
Code	Electrical Interface		
J5	Hessman		
J14	Hessman		
J15	Direct lead		
Code	Insertion length		
L30	30mm		
L50	50mm		
L75	75mm		
L100	100mm		
L150	150mm		
HDT	×	C	J L

**Eg:** HDT (0°C~150°C)-C1-J5-L50

Model:HDT;Range:0°C~150°C;Connection size: M20×1.5;Electric interface:Hessman; Insertion length:50mm.

### Notes:

- 1) Insertion length does not include thread.
- 2) Display can be LED and LCD.
- 3) Customized products can be discussed.