

"Edge Technology —
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Instrumentation | Flow meters, Level, Temp & Pressure Sensors

Medge Controls by Mega Switchgears

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HDT-300 PT100 temperature sensor datasheet



Product description

HDT-300 armored temperature sensor utilizes the characteristic that the resistance of platinum resistance changes with temperature change, and has a certain functional relationship to measure the temperature of the measured medium. HDT-300 temperature sensor adopts imported platinum resistance with high performance and high reliability. The shell is made of all stainless steel integrated processing, which has the characteristics of small volume and fast thermal response. The wire uses special shielded wire and the temperature range is wide. The product is easy to install. It has extremely high vibration and shock resistance.

HDT-300 armored temperature sensors are commonly used in petroleum machinery, chemical machinery, pumps and compressors, power, boilers, natural gas and other automated temperature measurement and control systems, directly measuring liquids and gases in the range of $-50^{\circ}\text{C} \sim 250^{\circ}\text{C}$ The temperature of the medium and solid surface.

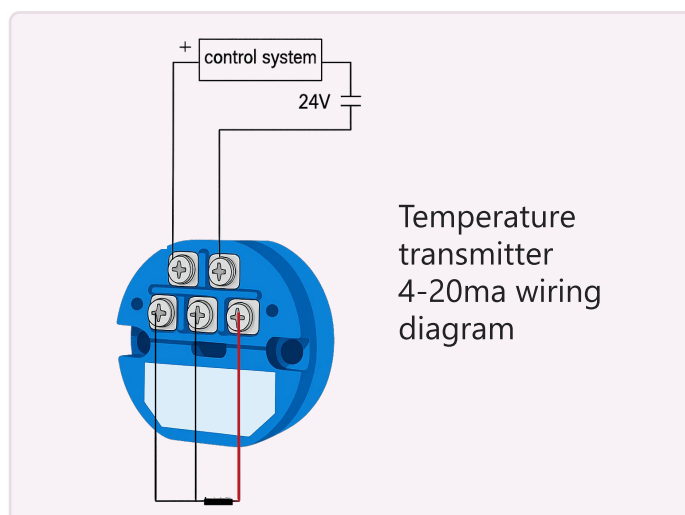
Mainly technical parameters

Range:	$0^{\circ}\text{C} \sim 500^{\circ}\text{C}$
Indexing number:	Pt100, Pt1000 optional
Platinum resistance level:	Class A
Accuracy:	0.5 %
0°C Resistance value (Ω) :	100 ± 0.06
Allowable current:	$\leq 5\text{mA}$

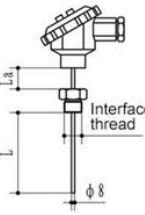
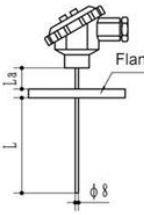
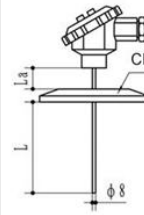
Allowable deviation value $\Delta^{\circ}\text{C}$:	$\pm (0.15 + 0.002 t)$
Insulation strength:	$100\text{M}\Omega / 250\text{VDC}$
Long-term stability:	$\leq 0.2\% \text{ FS} / \text{year}$
Thermal response time:	$\leq 30\text{s}$
Inserting depth:	$\geq 10\text{mm}$ (special requirements can be negotiated)
Insert diameter:	$\Phi 8\text{mm}$ (special requirements can be negotiated)
Explosion-proof grade:	Intrinsically safe Exia II CT6
Enclosure protection:	IP65
Electrical connection:	Direct lead

Features:

- High strength, anti-vibration, anti-high pressure
- Fast response
- Explosion-proof grade: intrinsically safe Exia II CT6
- Strong anti-interference and good long-term stability
- Easy to install and use
- Index number: Pt100, Pt1000 optional



External structure

kind	Shape I : thread type	Shape II: Flange type	Shape III: Clamp type
Dimensions Unit: mm			

Note: L is the insertion depth (without thread); La is the heat dissipation length; the diameter of the temperature envelope is φ8 by default, and special requirements can be customized

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Ordering tips:

- (1) The insertion depth is without the thread length.
- (2) If there are special requirements for product shape and performance parameters, our company can provide customization.

Product Series: HDT-300 temperature sensor

Measuring Range:

Fill in directly according to customer requirements

Thread Interface

C1: M20×1.5, C2: G1/2, C4: M14×1.5, CC: Custom

Flange Interface

F1: DN25 flange, F2: DN40 flange

Clamp Interface

K1: 2 inch clamp, K2: 2.5 inch clamp

Insertion Depth

L30: 30mm, L50: 50mm, L75: 75mm, L100: 100mm, L150: 150mm, LC: Custom

Index Number

Q1 : Pt100, Q2 : Pt1000

Pinout

Y1: 2-wire output, Y2: 3-wire output

HDT300 - 0°C~150°C - C2 - L50 - Q1 - Y1

It means that the model is HDT-300, the measuring range 0°C~150°C, the thread interface is G1/2, the insertion depth is 50mm, the index number is Pt100 & the lead wire system is two-wire output

HDT-300 °C C L Q Y