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Instrumentation | Flow meters, Level, Temp & Pressure Sensors

Medge Controls by Mega Switchgears

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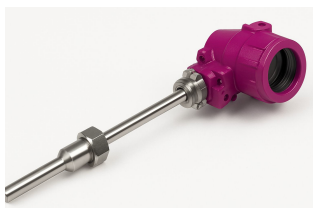
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HDT 602 temperature transmitter datasheet



Product description

HDT 602 is an intelligent type temperature transmitter uses the characteristic that the resistance of platinum resistance changes with temperature changes, and uses a single chip function to measure the temperature of industrial medium. The transmitter uses high-precision temperature measurement and electric resistance measurement technology. The head-mounted electromagnetic field can meet the requirements for a wide range of industrial applications, especially in harsh industrial environment.

The temperature measurement part of the product adopts an stainless steel integrated structure technology. The junction box uses 2D&3 aluminum shell. The product has the characteristics of strong earthquake resistance and fast thermal response. The wire uses special shielded wire and the temperature probe is wide. Measurement of various automated control systems.

Performance parameters

Range:	0°C ~ 500°C
Power supply:	24V
Output signal:	4 ~ 20mA, 4 ~ 20mA + HART protocol
Accuracy:	0.5 %
Sensitive element:	Pt100
Insulation strength:	500MΩ / 250VDC
Long-term stability:	≤0.2% FS / year

Thermal response time:	≤30s
Temperature Drift:	± 0.2% FS / °C
Insert diameter:	Φ12 (special requirements can be negotiated)
Explosion-proof grade:	Intrinsically safe explosion-proof Exia II BT4
Enclosure protection:	IP65
Electrical connection:	Integrated structure stainless steel shell, special can be customized.

Working environment:

- (1) Ambient temperature: -40 ~ 85°C
- (2) Relative humidity: 0 ~ 95% RH
- (3) Mechanical vibration: $f \leq 5\text{HZ}$, amplitude $\leq 0.15\text{mm}$
- (4) Power consumption: $\leq 0.5\text{W}$

Features:

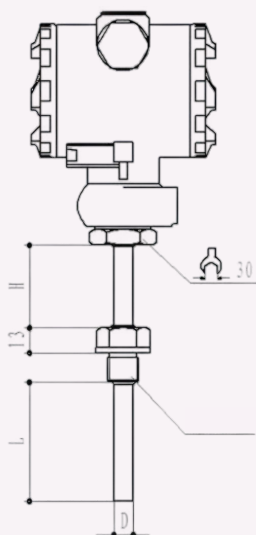
- Anti-vibration
- High strength and high pressure resistance
- Integrated structure, with amplification and linearization installed in the junction box
- With display optional
- Convenient installation, can work stably for a long time
- Fast response
- Multiple connection methods, multiple output signals
- Can be customized according to customer requirements

Application:

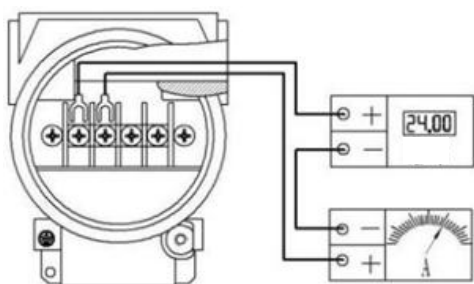
Temperature measurement of water or oil in equipment supporting, petroleum, chemical, electric power, textile, environmental

protection and other fields; automatic temperature measurement and control systems such as pumps and compressors, natural gas pipeline networks.

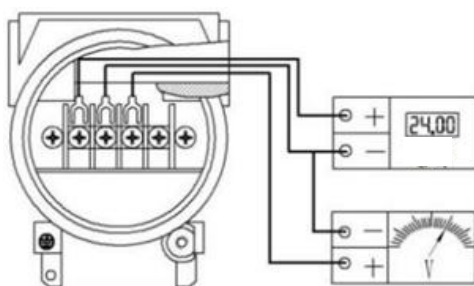
Shape structure and wiring method:



Note: L is the insertion depth; D is the diameter of the temperature package, the conventional is $\phi 8$; H is the heat dissipation length, generally 150mm; special can be customized



2 wire current output



3 wire voltage output

Product Series: HDT602

Measuring range:

Selection between 0°C-500°C

Output signal

A1:4-20mA, A2:4-20mA+hart

Thread size

B1:M20×1.5, B2:M16×1.5,
B3:M27×2, BXY:MX×Y Custom

Insert length

C1 : 30mm, C2 : 50mm,
C3 : 75mm, C4 : 100mm,
C5 : 150mm, CX: Xmm Custom

Display

D1:NONE, D2:LED, D3:LCD

HDT602 - 0°C~150°C - A1 - B1 - C1 - D1

Measuring range 0°C~150°C, 4-20mA output, M20*1.5 thread size, 30mm insert length, none display