

GTM 200 Temperature Transmitter Product Manual





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<u>Ga</u>laC

DESCRIPTION

GTM200 is a high-precision intelligent two-wire temperature transmitter. The product has a compact design, easy installation, high precision and good long-term stability. It can receive thermal resistance and thermocouple signals, linearize the input signal, and output 4...20mA (two-wire) standard signal. At the same time, it can cooperate with PC programming software to configure and program the temperature transmitter. Installed in the top junction box, it is widely used in the measurement and control of temperature parameters in various industrial processes.

FEATURES

- High precision (≤0.1%)
- Good stability (≤0.02%FS/°C)
- Fast response (1s)
- Automatic cold junction compensation (-20~+60°C)
- Various input signals (RTD, TC)
- Free configuration input (PC programming software)
- Wide voltage power supply (12...40VDC)



PARAMETERS

Input				
Input signal	Resistance temperature detector (RTD), thermocouple (TC)			
Cold-junction compensation temperature scope	-20~60°C			
Compensation precision	±1°C			
Output				
Output signal	420mA(two-wire)			
Load resistance	RL≤(Ue-12)/0.021			
Output current of upper and lower limit overflow alarm	IL=3.8mA、IH=21mA			
Power supply				
Supply voltage	1240VDC			
Other parameters				
Temperature drift	≤0.02%FS/°C			
Response time	Reach to 90% of the final value for 1s			
Used environmental temperature	-40~80°C			
Storage temperature	-40~100°C			
Installation area	Top cassette installation			

Input Type And Transmission Precision

Туре	Measuring range	Minimum measurement range	Conversion accuracy
Pt100	-200~850℃	20℃	±0.1% range or ±0.2℃
Cu50	-50~150°C	20℃	±0.1% range or ±0.2℃
В	400~1800°C	500℃	±0.1% range or ±1.5℃
E	-100~1000°C	50℃	±0.1% range or ±0.5℃
J	-100~1200°C	50℃	±0.1% range or ±0.5℃
К	-180~1372℃	50℃	±0.1% range or ±0.5℃
N	-180~1300°C	50℃	±0.1% range or ±0.5℃
R	-50~1768℃	500°C	±0.1% range or ±1.5℃
S	-50~1768℃	500°C	±0.1% range or ±1.5℃
Т	-200~400℃	50℃	±0.1% range or ±0.5℃

NOTE:

1. The above accuracy data is obtained by testing at an ambient temperature of $20^{\circ}C \pm 2^{\circ}C$.

2. The output accuracy "%" is relative to the set range.

3. The cold junction compensation error needs to be added when the thermocouple is measured, and the internal cold junction compensation error is $\leq \pm 1^{\circ}$ C.