

GW100 Temperature Transmitter

Features

- High-strength stainless steel structure
- Wider Measured temperature range: $-50^{\circ}\text{C} \sim +400^{\circ}\text{C}$
- Output signal: Pt100, Pt1000
- High accuracy, perfect long term stability impact resistance
- Anti-vibration, high pressure resistance
- Multiple connection modes, excellent field interactivity, customized available



Application

- Engineering machinery, cars
- Oil and Chemical industry
- Automatic checkout industry
- Shipping, railway transportation
- Wind power generation
- Supply heating
- Hydraulic pressure, Air compressor and Pumps

Introduction

GW100 temperature transmitter adopts temperature resistance cable for guarantee wider measuring range within lower cost. The thermal resistance temperature transmitter, capitalizes on the theory that resistance of platinum resistor varies with temperature as a certain function relations to measure the temperature. Usually mated with temperature transmitter display instruments and computers, could measure the temperature of liquid, gas, vapor, even the surface of solid from -50°C to 400°C . Its simple integrated stainless steel construction is easily for connecting with a variety of available multiple lead ways and external structures.

Specification

| | |
|----------------------------|---|
| Measured Medium | Gas, liquid, vapor or solid surface which is compatible with stainless steel. |
| Measured Temperature range | $-50^{\circ}\text{C} \sim +400^{\circ}\text{C}$ |
| Output signal | Pt100 , Pt1000 |
| Accuracy/Permissible error | A: $100 \pm (0.15 + 0.002 t)$; B: $100 \pm (0.30 + 0.002 t)$ |
| Insulating strength | 100M Ω /100VDC |
| Thermal response time | $\leq 30\text{s}$ |
| Min. Insertion depth. | $\geq 20\text{mm}$ |
| Excitation | (1.6~5)mA |

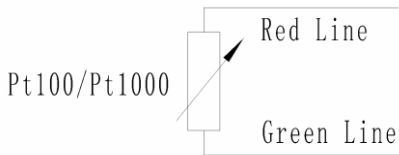
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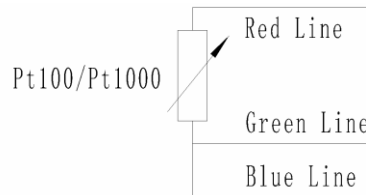
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Electrical Connection

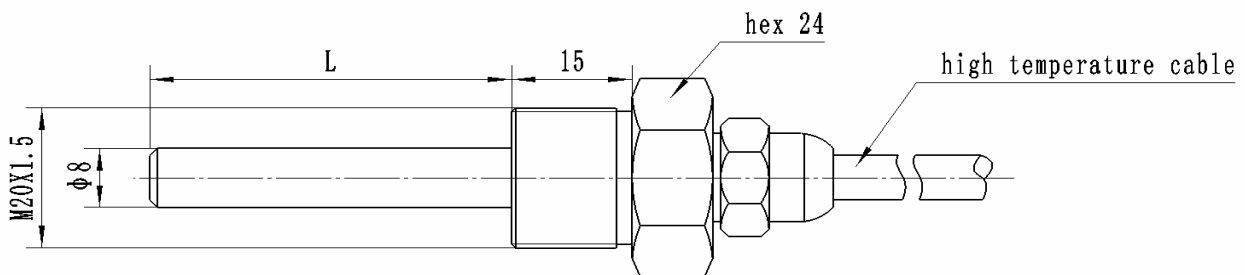
2-wires



3-wires



Outline Structure (Unit:mm)



Order Guide

| | | |
|-------|-------------------------|--|
| GW100 | Temperature Transmitter | |
| | 0-300℃ | Measured Temperature range(Unit: ℃) |
| | | Code Output signal |
| | | P1 Pt100 |
| | | P2 PT1000 |
| | | Code Connection |
| | | C0 Unfixed apparatus |
| | | C1 Flange |
| | | C2 Thread |
| | | C3 Others(please specify) |
| | | Code Diameter of external protecting tube |
| | | D1 Φ 6 |
| | | D2 Φ 8 |
| | | D3 Φ 10 |
| | | D4 Φ 16 |
| | | D5 others (please specify) |
| | | Code Electrical connection |
| | | E1 Hirschman connector |
| | | E2 PG7 connector |
| | | E3 Aviation connector |
| | | E4 Cable directly |

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Temperature Transmitter

| | | | | | | |
|-------|---------|----|----|----|----|---------------------------------|
| | | | | | E5 | Others (please specify) |
| | | | | | | S Others, Please note in detail |
| GW100 | 0-300°C | P1 | C0 | D1 | E1 | S |

Order Note

1. The material of measuring medium should be compatible with the stainless steel. If it is corrosive, pls specify its material in detail.
2. Please note it in detail if your application environment is critical or the elements which may influence the pressure transmitter normal operation existed.
3. The structure and demension of the transmitter can be used for most of the application occasions, if your application space is too small or having other requirements to the transmitters, please specify it in detail.
4. All specifications are subject to change. Contact Gaohua for specifications and engineering drawings that are critical to your application. Drawings contained in this document are for reference only.

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