



熠科

Siko Instruments

## HGT-200

# Submersible Temperature Transmitter

### GENERAL

HGT-200 Submersible Temperature Transmitter adopts imported Pt100 temperature sensor as sensing measuring element.

It's fully sealed with IP 68 submersible structure design, and combined varieties of sealing technologies in one compact all stainless steel probe. It's featured of temperature compensation, linear processing circuit with V/I conversion and high-speed AD acquisition. 4-20mA, 0-10V and RS 485 output available for different industrial process and control.

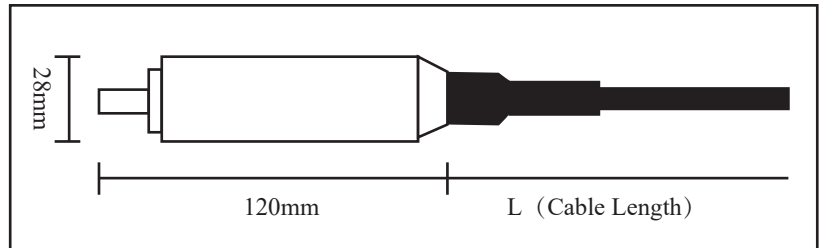
### FEATURES

- Rugged compact all stainless steel construction.
- 2-wire 4-20mA output for remote process control.
- Submersible deep-water temperature measurement rated IP 68.
- It's with high measuring accuracy and long-term stability.
- 4-20mA, 0-10V, RS 485 and other outputs available.
- It's cold junction with low temperature drift and non-linear automatic compensation function.
- The signal converter encapsulated into module with epoxy resin, it with functions of anti-vibration, anti-corrosion, anti-moisture etc.



### ELECTRICAL DIAGRAM

|                      | Wire Color | Definition |
|----------------------|------------|------------|
| 4-20mA Output        | Red        | 24V+       |
|                      | Blue       | 24V-       |
| 0-10V Output         | Red        | 24V+       |
|                      | Black      | 24V-       |
|                      | Yellow     | Out+       |
| RS 485 Communication | Red        | 24V+       |
|                      | Black      | 24V-       |
|                      | Yellow     | RS 485 A   |
|                      | Blue       | RS 485 B   |



## TECHNICAL PARAMETERS

|                   |   |                       |                                 |
|-------------------|---|-----------------------|---------------------------------|
| Measuring liquids | Fluids compatible with SS 316L,<br>Polyurethane cable and Nitrile<br>(NBR) O-ring sealing | Electrical connection | 2-wire (3-wire 4-wire optional) |
|                   |   | Insulation resistance | 100 MΩ / 250 VDC                |
| Input signal      | RTD PT 100  | Accuracy              | 0.5%F.S.                        |
| Temperature range | -20 - 100 °C  | Long-term stability   | ≤0.5%F.S. / Y                   |
| Power             | DC 12-30V (Std.DC 24V)  | Housing material      | Sensor housing: SS 304,         |
|                   | DC 8-30V (RS 485 Communication)   |                       | Vented cable: polyurethane      |
| Output signal     | 4mA - 20mA DC (2-wire)  | Protection            | IP68                            |
|                   | 0/1V - 5V/10V DC (3-wire)   | Ambient temperature   | -40 - 85 °C                     |
|                   | RS 485 Mod_Bus (4-wire)   | Certificates          | CE, ISO, RoHs                   |

## SELECTION TABLE

|                     |                                     |
|---------------------|-------------------------------------|
| Company             | Hefei Siko Instruments Co.,ltd      |
| Item                | Submersible Temperature Transmitter |
| Model               | HGT-200                             |
| Temperature Range   | -20-100°C                           |
| Power Supply        | V1:DC 8-32V                         |
|                     | V2: DC 3-5V                         |
| Output Signal       | F1: 4-20mA DC                       |
|                     | F2: 0.5-4.5V DC                     |
|                     | F3: 0-10V DC                        |
|                     | F4: RS 485 Mod_Bus                  |
|                     | F5: Other                           |
| Display             | D1: No Display                      |
|                     | D2: LCD Display                     |
|                     | D3: LED Display                     |
| Accuracy            | E1: ±0.5%FS (Std)                   |
|                     | E2: ±0.25%FS                        |
|                     | E3: ±0.1%FS                         |
| Cable Length(m)     | L: Cable Length                     |
| Additional Features | K: Compact Type                     |
|                     | E: Lightning-proof Function         |
|                     | F: Corrosion-Proof Function         |

You Need To Provide The Following Information:

01. Type of Liquids: The Liquids Will Be Measured.
02. Level Range or Depth(m):
03. Output Signal:
04. Type of Display:
05. Power Supply:
06. Cable Length:

Notes:

- 1) Please pay attention if the fluids is compatible with the contacting material SS 316L.
- 2) Please pay attention to the fluids density at measuring situation (except water).
- 3) Cable material Polyethylene(PE), Polyurethane(PU) and Teflon(PTFE) optional. Standard cable material is Polyurethane(flexible and wearable).
- 4) If the sensor will be installed in lightning and thunder area, please note "Lightning Protection" in the order. We will add lightning protection device for power grounding safely.



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