

PCT710 Intelligent Temperature Switch

Features

- High precision
- Adjustable response time
- NPN, PNP compatible, free switching
- Button operation, shortcut button for one-click zero calibration, fast unit switching
- OLED shows the current temperature
- LED for node action, easy to observe

Applications and industries

- Hydropower
- Chemical industry
- City water supply
- Scientific research
- Accurate measurement and control of temperature

Notes:

- 1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.
- 2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
- 3 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.
- 4 Misuse of the product may cause danger or personal injury.



Product overview

The electronic digital display temperature switch is an intelligent digital display temperature measurement & control product which integrates temperature measurement, display, output and control. This product is in full-electronic structure. The PT100 high precision temperature sensor is adopted in the front end. The output signal is processed by the pre-amplification electric circuit, and then sent into high precision A/D converter. Through arithmetic processing by means of the advanced industrial grade microprocessor, the output signal is displayed on site with 2-way switch quantity, accomplishing the measurement and control for the control system temperature.

This intelligent digital temperature switch has advantages of flexible use, simple operation, easy commissioning and high safety and reliability. It is widely used in hydropower, tap water, petroleum, chemical, mechanical, hydraulic and other industries for the measurement, display and control of the medium temperature.

Notes:

- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

Performance parameters

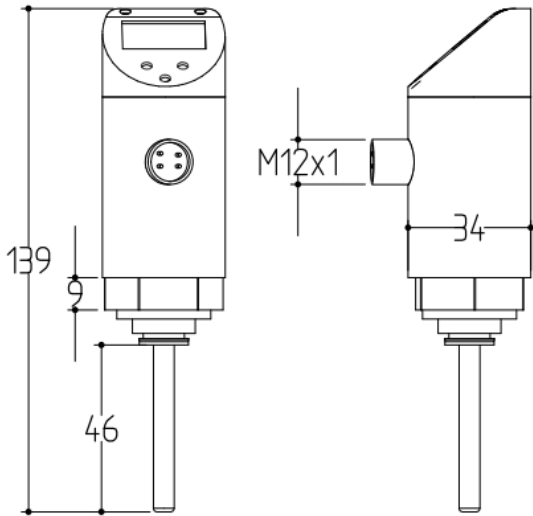
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|----------------------|--|
| Measurement range | -50°C ~ 200°C (-58°F ~ 392°F) |
| Accuracy | ±1.0°C (±2°F) |
| Display unit | °C/°F |
| Electrical connector | M12x1 round pins |
| Power supply | 12~30V, 24V recommended |
| Display mode | OLED display of 4 digits |
| Output mode | 2-way switch quantity, NPN and PNP compatible + 4~20mA |
| Load capacity | ≤24V1.2A |
| Power consumption | ≤15mA |
| Medium temp. | -50°C ~ 200°C |
| Operating temp. | -25°C ~ 80°C |
| Storage temp. | -40°C ~ 100°C |
| Response time | ≤20ms |
| Insulation | 100MΩ/250VDC |
| Protection grade | IP65 |

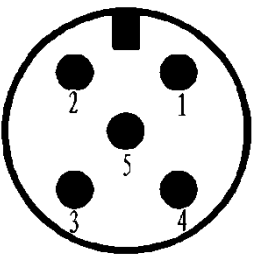
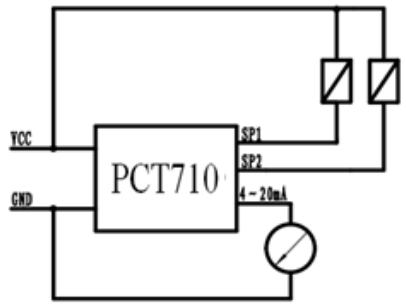
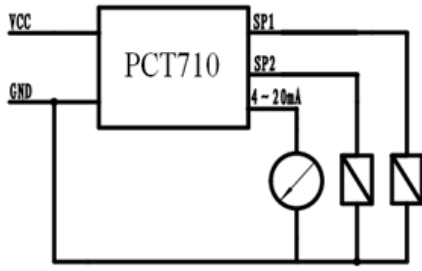
Structural performance parameters

| | |
|----------------------|---|
| Housing material | 304 |
| Medium compatibility | Liquid contacting diaphragm 316L, pressure port 304 |
| Panel material | PA66 |

Outline dimension

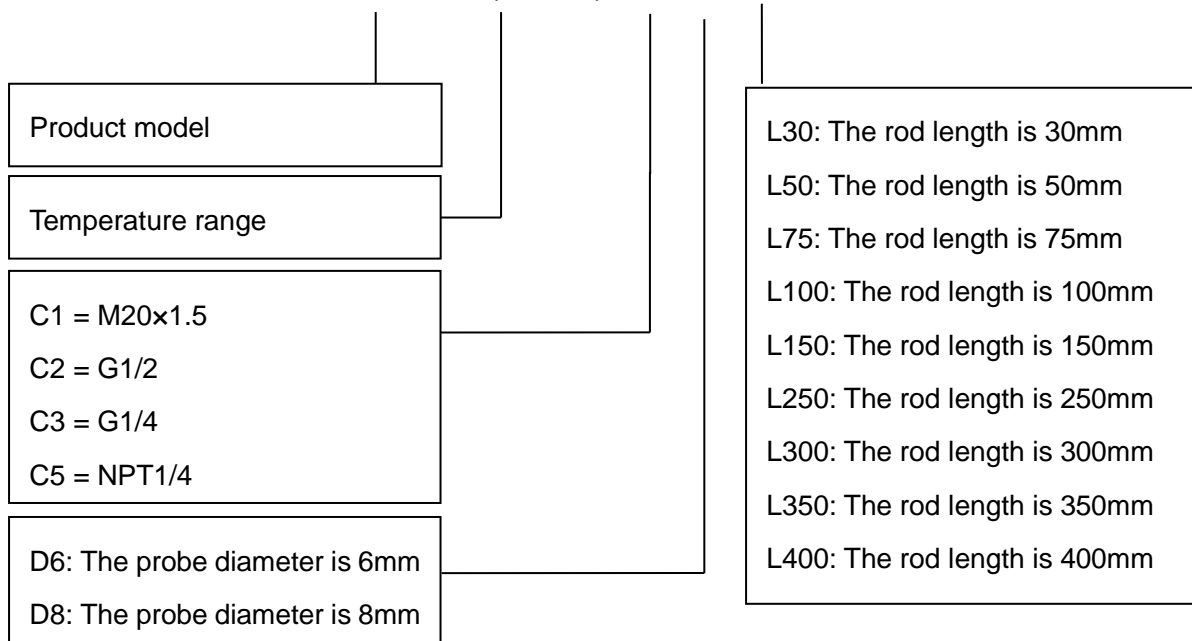
In mm

| | |
|-----------|--|
| Dimension |  |
|-----------|--|

| M12x1 | Wiring definition | Wiring diagram |
|---|--|--|
|  | <p>1: VCC (Supply +) 2: GND (Supply -) 3: SP1 (Switch 1) 4: SP2 (Switch 2) 5: 4~20mA</p> | <div style="text-align: center;">  <p>NPN output wiring diagram</p> </div> <hr/> <div style="text-align: center;">  <p>PNP output wiring diagram</p> </div> |

How to order

PCT710 - (-50~0)- C1-D6-L300



Example: PCT710-(-50~0)C1D6L300

Refer to PCT710 Temperature Switch, temperature range -50°C~0°C, pressure connection M20x1.5, probe diameter 6mm, rod length 300mm.

| Name | Specifications |
|------------------------|---------------------------------|
| M12×1 female with wire | M12×1 female 5-pin with wire 2m |

Ordering tips

1. Please ensure the compatibility between the measured medium and the contacting part of the product when placing an order.
2. If there are special requirements for the product appearance or performance parameter, our company can provide customization.

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.

Contact us

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