

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

Measurement range	-50℃～200℃ (-58°F～392°F)
Accuracy	±1.0℃ (±2°F)
Display unit	℃/°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℃～200℃
Operating temp.	-25℃～80℃
Storage temp.	-40℃～100℃
Response time	≤20ms
Insulation	100MΩ/250VDC
Protection grade	IP65

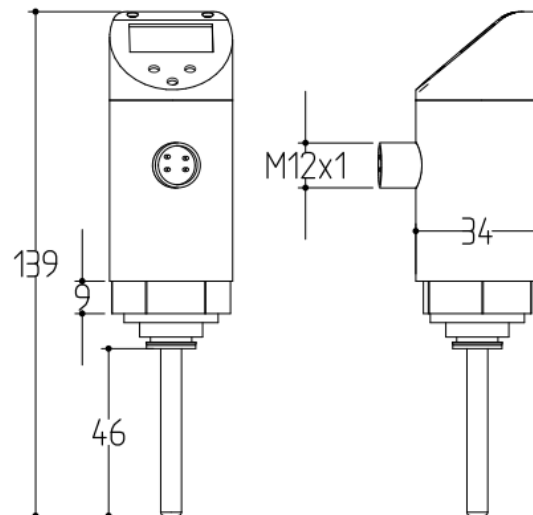
Structural performance parameters

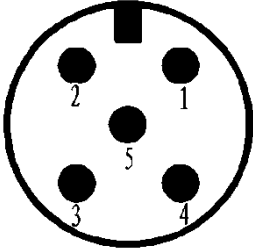
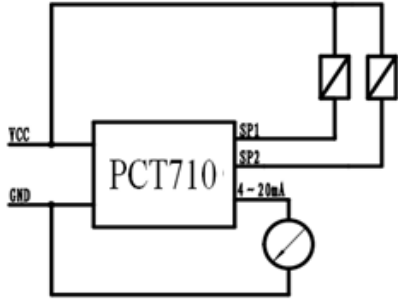
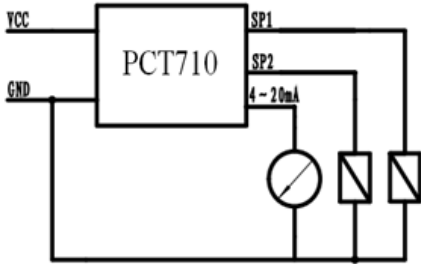
Housing material	304
Medium compatibility	Liquid contacting diaphragm 316L, pressure port 304
Panel material	PA66

Outline dimension

In mm

Dimension



M12×1	Wiring definition	Wiring diagram
	1: VCC (Supply +) 2: GND (Supply -) 3: SP1 (Switch 1) 4: SP2 (Switch 2) 5: 4~20mA	 <p>NPN output wiring diagram</p>
		 <p>PNP output wiring diagram</p>

How to order

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

Product model

Temperature range

C1 = M20×1.5

C2 = G1/2

C3 = G1/4

C5 = NPT1/4

D6: The probe diameter is 6mm

D8: The probe diameter is 8mm

L30: The rod length is 30mm

L50: The rod length is 50mm

L75: The rod length is 75mm

L100: The rod length is 100mm

L150: The rod length is 150mm

L250: The rod length is 250mm

L300: The rod length is 300mm

L350: The rod length is 350mm

L400: The rod length is 400mm

Example: PCT710-(-50~0)C1D6L300

Refer to PCT710 Temperature Switch, temperature range -50℃~0℃, pressure connection M20×1.5, probe diameter 6mm, rod length 300mm.

Name	Specifications
M12x1 female with wire	M12x1 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.

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