



(For detailed wiring diagrams, please refer to the manual)

The STC Single-channel Digital Display Controller (simplified version) is easy to operate, with a measuring accuracy of 0.3 grade, dual four-digit LED displays, suitable for detecting industrial process quantities such as temperature, pressure, flow, and humidity. It supports 4-way alarm function, supports RS485 communication interface with standard MODBUS protocol, optical isolation between input/output and power supply, power supply of 100-240VAC, standard card insertion installation, and a working environment temperature of 0°C~50°C with relative humidity of 5%~85%, no condensation.

Function:

- Single loop input, dual screen LED digital display
- Has upper and lower limit alarm function, with LED alarm indicator light
- Supports RS485 communication interface, adopts standard MODBUS RTU communication protocol (for some models)
- Input, output, power, and communication are optically isolated from each other
- Parameter setting password lock, setting parameter power-off permanent storage
- Sensor monitoring
- Restore factory default parameters

Technical parameters:

Applicable environment temperature: 0°C~50°C

Relative humidity: 5%~85%RH (avoid strong corrosive gas)

Measurement accuracy: level 0.3

Setting mode: panel touch button for digital setting, parameter settings for password lock, parameter settings for power-off permanent preservation.

Display mode: -1999~9999 measurement value display; LED working status display

Installation method: standard snap-in type

Working power: 100-240VAC, 50/60HZ

Input signal: PT100

Digital communication: It allows the display instrument to communicate with the PC or computer network system using the MODBUS RTU protocol. It is recommended to use the isolation interface board. Otherwise, interference may occur or affect communication due to different earth potentials. The wire should use shielded twisted pair (for some models).

Note: If you need to order, please consult with the local Jiahong technicians for technical confirmation and model selection.

Product Model	Product Name	Description	Remarks
STC-1	Single Channel Digital Temperature Controller	Panel size: 48X48mm, control point 1/alarm point 1, supports RS-485 communication	Suitable for use in non-explosive-proof areas, the temperature controller is for cabinet door type installation
STC-2	Single Channel Digital Temperature Controller	Panel size: 48X48mm, control point 1/alarm point 2, supports RS-485 communication	
STC-3	Single Channel Digital Temperature Controller	Panel size: 72X72mm, control point 1/alarm point 1, supports RS-485 communication	
STC-4	Single Channel Digital Temperature Controller	Panel size: 72X72mm, control point 1/alarm point 2, supports RS-485 communication	
STC-5	Single Channel Digital Temperature Controller	Panel size: 48X48mm, control point 1/alarm point 1, does not support communication	
STC-6	Single Channel Digital Temperature Controller	Panel size: 48X48mm, control point 1/alarm point 2, does not support communication	
STC-7	Single Channel Digital Temperature Controller	Panel size: 72X72mm, control point 1/alarm point 1, does not support communication	
STC-8	Single Channel Digital Temperature Controller	Panel size: 72X72mm, control point 1/alarm point 2, does not support communication	