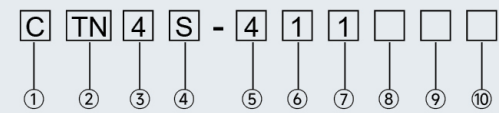




Model number structure



Item	Code	Description
① Name of the company	C	CNTD
② Series	TE	Economical digital dual display PID temperature controller
	TN	Standard digital dual display PID temperature controller
	TZ	High precision digital dual display PID temperature controller
③ Digit	4	9999 (4 Digit)
④ Dimensions	S	48×48
	V	48×96
	M	72×72
	L	96×96
	H	96×48
⑤ Voltage supply	2	24VAC 50/60Hz, 24-48VDC
	4	Switch power supply(100-240V AC, 50HZ)
	A-Z	Custom power supply voltage
⑥ Control output	1	Relay
	2	SSR Output
	3 ☐	Analog output: A: 0~20mA, 4~20mA, B: 0-5V, 1-5V
	4	Thyristor zero-crossing output
	5	Silicon controlled rectifier (5A)
	6	SSR+Relay output
	A-Z	A-Z letter combination represents other or custom control output modes

Features

- High-speed sampling
- AI artificial intelligence adjustment algorithm
- Dual PID heating and cooling intelligent adjustment
- AT automatic calculation function
- 16-bit MCU high-speed operation accuracy
- Dual digital display (PV / SV)
- High-speed sampling rate of 100ms and display accuracy of 0.5%
- SSR Drive output / Relay output / Current output optional
- Terminal type wiring method conducive to wiring and maintenance

Item	Code	Description
⑦ Alarm output	1	1-Way relay
	2	2-Way relay
	3	1-way SSR
	4	2-way SSR
	A-Z	A-Z letter combination represents other or custom control output modes
⑧ Graduation	None	Thermocouple input K, E, J, L, T, R, S Thermal resistance input PT100, Cu50 (full function)
	A-Z	A-Z letter combination, representing other or customized alarm output
⑨ Transmission output	None	No such function
	T	With transmission output function
⑩ Special specifications	None	No such function
	R	With RS485 communication function

Note 1: Analog output and transmission output cannot be selected at the same time;
Note 2: Due to the limited number of 48 * 48 ports, the model selection cannot be fully met. Please contact the manufacturer if necessary;
Note 3: For 48x48 size, if 485 communication is required in the control output option, only 1/2/3 can be selected, not choose 6.

Electrical specification

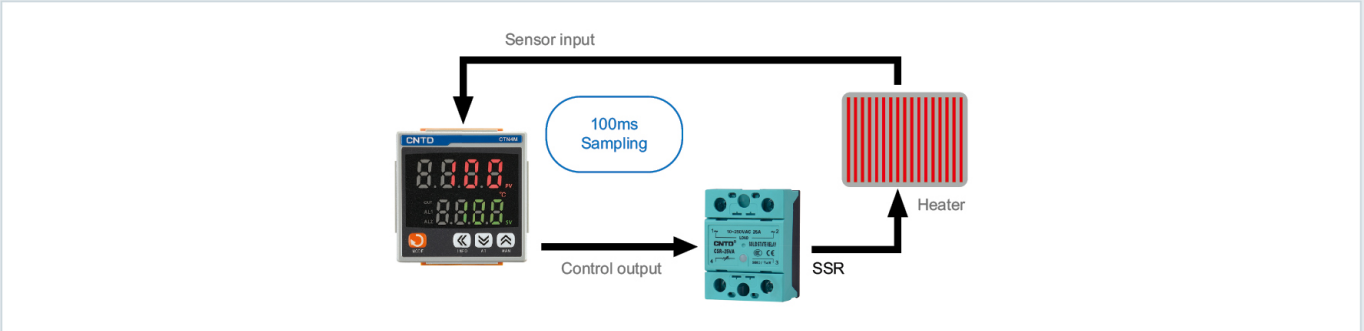
Rated voltage	100-240V AC, 50HZ
Power consumption	≤ 5VA
Rated voltage	Installation type II, Pollution degree 2
Storage Temperature	-25°C -65°C (Avoid freezing)
Esolution power	1°C , 0.1°C (Adjustable)
Wiring method	Connecting terminal
Measuring accuracy	±0. 5%FS
Memory Protection	Non-volatile memory
Installation conditions	Installation type II, Pollution degree 2
Relay output	Relay contact: AC220V/DC30V,3A
Logic level output	On: DC24V; Off: dc0 Below 5V; Maximum current: 30mA, load resistance ≥ 1K

Overall dimension

Model		Shell size (length, width and height)	Hole size
CTN4S	48x48	48x48x71	45x45
CTN4V	48x96	48x96x71	46x92
CTN4H	96x48	96x48x71	91x45
CTN4M	72x72	72x72x71	68x68
CTN4L	96x96	96x96x71	92x92

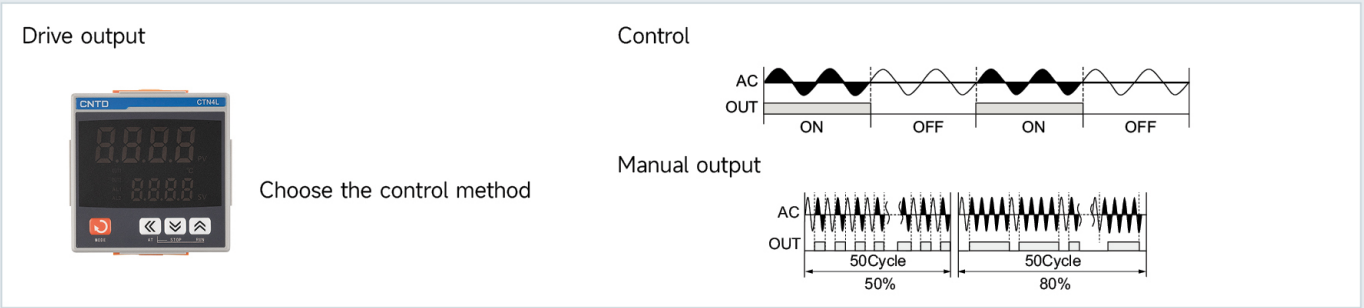
High speed sampling

100ms high-speed sampling rate enables precise temperature control in applications requiring fast response speed.



SSR drive output method

Users can choose SSR and RELAY drive output. On this basis, ON/OFF control and manual output are added to achieve ideal temperature control.



CTN4 Intelligent Temperature Controller



Appearance and dimension

CTN4S
48×48mm

CTN4M
72×72mm

CTN4L
96×96mm

CTN4V
48×96mm

CTN4H
96×48mm

CTN4 Intelligent Temperature Controller



Operating interface

First display (PV)
Display measured value
Display various prompts according to the instrument status

Second display(SV)
Display given value
Display various parameter according to the instrument status

Action directive
OUT: Heating indicator, light on when it is operating
ALM1: Deviation high-limit alarm, light on when it is alarming
ALM2: Deviation low-limit alarm, light on when it is alarming

Plus key (➤)
Increase the adjustment value
Manual mode access key
Menu parameter switch key

Minus key (➤)
Decrease the adjustment value
Menu parameter switch key

Left shift (⇐)
Status information view enter key
Auto-tuning state enter key

Function key (Mode)
Main menu and submenu access key
Parameter modification and confirmation key

Please scan the QR code for detailed usage parameters

Application scenario

