

## Temperature controller

### Description

These items of digital temperature controller have 2-digit LED display, and are widely applied to temperature measurement and control in refrigerators and food-processing fields.



### Specifications

Housing: self extinguishing 75x38x70mm ABS

Mounting: Flush type

Power supply: 220VAC(110VAC)/50Hz(60HZ)

Temperature Range: -40~60C(-40~140F)

Resolution: 1

Sensor length: Standard 2.0m(Optional)

MODEL	LED	Lo	Hi	Cool	Defrost	Fan	Light	Alarm	Off	SPDT	Ch	Pro.g	HACCP	DI	Power	Hotkey	R485
C1210	✓	✓	✓	16A	✓			✓		NTC	1	✓		✓			
C1211	✓	✓	✓	16A	✓			✓		NTC	2	✓		✓			
C1212	✓	✓	✓	16A	8A			✓		NTC	1	✓		✓			
C1212-B	✓	✓	✓	16A	8A			✓		NTC	2	✓		✓			

LED	Lo	Hi	Cool	Defrost	Fan	Light	Alarm	Off	SPDT	Ch	Pro.g	HACCP	DI	Power	Hotkey	R485
LED	Low	High	Cool	Defrost	Fan	Light	Alarm	Off	SPDT	channel	Menu	Food	Input	Power	Hotkey	RS485

## Temperature controller

### Description

These items of digital temperature controller have 3-digit LED display(Integrated display). They are widely applied to temperature measurement and control in refrigerator and other food-processing fields.



### Specifications

Housing: self extinguishing 75x38x70mm ABS

Mounting: panel mounting in a 71X29mm , panel cut-out

Front Protection : IP40

Measurement Range: -40~60C / -40~140F (C1220 -200~510 C)

Resolution: 0.1

Power Supply: 220VAC±10%, 50~60Hz

MODEL	LED	Lo	Hi	Cool	Defrost	Fan	Light	Alarm	Off	SPDT	Ch	Prog	HACCP	Di	Power	Hot	R485
C1203-F	✓	✓	✓	16A	8A	8A		✓		NTC	2	✓	✓		✓		
C1203-K	✓	✓	✓	16A	7/5A	8A		✓		NTC	2	✓	✓	✓	✓	✓	
C1206	✓	✓	✓	16A	✓			✓		NTC	1	✓			✓		
C1206-C	✓	✓	✓	16A	✓		3A	✓	✓	NTC	1	✓		✓	✓	✓	
C1206-F	✓	✓	✓	16A	8A			✓		NTC	1	✓	✓		✓		✓
C1206-H	✓	✓	✓	16A	✓			✓		NTC	1	✓			✓		
C1206-N	✓	✓	✓	16A	✓			✓		NTC	1	✓			✓		
C1206-S	✓	✓	✓	16A	✓			✓		NTC	1	✓			✓	✓	
C1220	✓	✓	✓	16A(2)	8A	✓	✓	✓		NTC	1	✓			✓		

LED	Low	High	Cool	Defrost	Fan	Light	Alarm	Off	SPDT	channel	Menu	Food	Input	Power	Hotkey	RS485
LED	Low	High	Cool	Defrost	Fan	Light	Alarm	Off	SPDT	channel	Menu	Food	Input	Power	Hotkey	RS485

## Digital Thermometer

### Description

These items of digital thermometer have high accuracy and stability. They are environment-friendly and waterproof. They are of low power consumption. They are applied to cold chambers, freezer, food display cabinet, swimming pool, boiler, solar heating systems etc.



### Specifications

Housing: ABS

Mounting: Flush type

Temperature Range: -30~80C

Accuracy: +/- 1C@-30~80C

Update rate: 10 seconds

Resolution: 0.1@>=20C, 1@<=20C

Sensor length: Standard 1.5m, Optional

		
LCD	LOW	High
		
Sensor	channel	Power

MODEL						
D2100	✓	✓	✓	NTC	1	Battery
D2101	✓	✓	✓	NTC	1	Solar
D2103	✓	✓	✓	NTC	1	Battery
D2105	✓	✓	✓	NTC	1	Solar
D2106	✓	✓	✓	NTC	1	Solar
D3103	✓	✓	✓	NTC	1	Battery
D3112	✓	✓	✓	NTC	1	Battery

## Data logger

### Description

These are data loggers with thermal printer, which can record two channels of temperature simultaneously. They are widely applied to measurement and record of temperature in the fields of food industry, laboratory equipments, pharmaceutical industry, transportation of temperature-sensitive products etc.



### Specifications

Housing: ABS

Temperature Range: -40~125C/-40~257F

Sensor: DS18B20

Printer: Thermal Printing

Function: Temperature display/ Record/Print

Sensor Length: Standard 2m (Optional)

Software: HYdata logger

LCD	Low	High	Alarm	Printer	RS232	Battery	storage
Menu	Sensor	channel	record	Clock	Power	RS485	

MODEL															
RT101	✓	✓	✓	3A	✓			✓	✓	DS18B20	2	✓	✓	✓	
RT102	✓	✓	✓	3A	✓			✓	✓	DS18B20	2	✓	✓	✓	
RT103	✓	✓	✓	3A	✓	✓		✓	✓	DS18B20	2	✓	✓	✓	
RT103-S	✓	✓	✓	3A	✓			✓	✓	DS18B20	2	✓	✓	✓	Wireless
RT104	✓	✓	✓	3A	✓	✓	✓	✓/RS232	✓	DS18B20	1	✓	✓	✓	
RT105	✓	✓	✓	3A	✓			✓	✓	DS18B20	1		✓		
RT106	✓	✓	✓	3A	✓	✓		✓	✓	DS18B20	2	✓	✓	✓	Wireless
RT108	✓	✓	✓	3A	✓	✓	✓	✓	✓	DS18B20	1	✓	✓	✓	

## Paperless data logger

### Description

These are paperless data logger, which can record 2 channels of temperature. They are widely applied to the process record in the fields of food processing, transportation, medical chemistry, laboratory equipment, industrial process control and chemical engineering and other relative fields.



### Specifications

Housing: ABS

Temperature range: -50-1000C

Display: 1602 dots LCD

Sensor : DS18B20/PT100/K-type sensors

Interface: RS232

Storage Capacity: 32000 sample points(Max)

Functions: Temperature display/ Record/Print

				mV	R232		
LCD	Low	High	Alarm	mV	RS232	Battery	storage
		mA					R485
Menu	Sensor	mA	channel	record	Clock	Power	RS485

MODEL					mA	mV	R232									R485
RT202	✓	✓	✓	3A			✓			✓	DS18B20	2	✓	✓	✓	
RT203	✓	✓	✓	3A			✓		✓ / USB	✓	DS18B20	2	✓	✓	✓	
RT203-S	✓	✓	✓	3A					✓ / USB	✓	DS18B20	2	✓	✓	✓	✓
RT204		✓	✓	✓			✓	✓	✓		T-RH	2				
RT205	✓	✓	✓	3A	✓	✓	✓	✓	✓	✓	DS18B20	1	✓	✓	✓	
RT205-S	✓	✓	✓	3A	✓	✓			✓	✓	DS18B20	1	✓	✓		✓
RT207	✓	✓	✓	3A	✓	✓	✓		✓	✓	DS18B20	8	✓	✓	✓	
RT207-K	✓	✓	✓	3A	✓	✓	✓		✓	✓	DS18B20	8	✓	✓	✓	

## Process Controller

### Description

- 1) Dimension: C4101 48x48x110mm (1/14 DIN) / C4102 48x96x110mm
- 2) Panel: C4101: 45,5x45,5 mm (+0.5 -0.0mm) C4102:45.5x93.5 mm (+0.5 -0.0mm)
- 3) Power: 85 to 250Vac/dc, 50/60Hz. Maximum Power Dissipation: 3VA
- 4) Operating environment: 0-55°C, Humidity: 20-95%, no condensing



### Specifications

#### Input:

- 1) Keys input (refer to the Table1)
- 2) Internal resolution: 19500
- 3) Display resolution: 12000 ( -1999-9999)
- 4) Sampling rate: five times each second
- 5) Accuracy: thermocouple: 0.25%  
Pt100 , 4-20mA, 0-50mV, 0-5Vdc: 0.2%
- 6) Input resistance: 0-50mV, Pt100 and thermocouple >2MΩ  
0-5V: >1MΩ  
4-20mA: 100
- 7) Pt100Measurement: DIN43670 standard ( $\delta=0.00385$ ). Current: 250uA.
- 8) Analog Output: 0-20mA or 4-20mA, 1500 levels, Top Load 550 Ω.

#### Alarms

- 1) Up to 4 alarms, capable of setting 9 different functions
- 2) 2 relay alarms, programmable from 0 to 6500 seconds
- 3) 4 alarms have a programmable return difference

#### Output (standard version, up to 4 outputs):

- 1) Two 3A / 250Vac (3A / 30Vdc) one normal open relay
- 2) One 3A/250VAC (3A / 30Vdc) one transfer relay
- 3) Isolated 0-20mA or 4-20mA control output or PV or SP transfer output, 1500 level resolution, Top load 550Ω
- 4) SSR Logic Pulse: 0 or 20mA;
- 5) The above can be chosen as the main control output or alarm.
- 6) Programmable PWM cycle from 1 second to 100 seconds
- 7) 10 seconds after power-on, the control starts.

#### Optional unit (5 outputs):

- 1) Choice 1: 3A / 250Vac (3A / 30Vdc) SPDT relay ( the third relay)
- 2) Choice 2: RS-485, 1200 to 19200bps