

Brewing Controller

Description

These are digital temperature controller specially designed for fermentation industry. They are widely applied to wine fermentation process, dairy processing for temperature measurement and control. They can control heating and cooling according to temperature. It has functions of real-time temperature and status display.



Specifications

Ambient environment: -20-70C, 10-90%

Display: 3-digit Red LED display temperature
LED light displays status

Power: 24VAC/DC

Temperature Range: -9.9-99.9C/14.0-212F

Sensor: DS18B20

Accuracy: +/-0.5C

Protection class: IP65

Mounting Type: Axial/Suspended

Function: Display/Cooling/Heating/Auto heating and cooling/C or F shift/Alarm/RS485(CS001 software)

Relay Output: Relay for Cooling 3A./24VAC(DC)
Relay for Heating 3A./24VAC(DC)

Communication: RS485 (CS001)

Matched parts

- 1,Thermowell: WJ100,WJ101,WJ102 and so on(optional).
- 2,Conjunction box:WJ500,WJ501.
- 3,Software:CS001



Conjunction box

Products



The highlight feature of fermentation controller is, they can work together with our software CS001 to form a control system; so that to realize centralized management over wine tanks in different places.



MODEL	LED	Lo	Hi	Cool	Heat	Defrost	Pum.	Alarm	Off	S	Ch	Pro.g	Clock	Power	R485
C1240	✓	✓	✓	30A		30A		✓	✓	NTC	1	✓		✓	✓
C2103	✓	✓	✓	3A/24V	3A/24V		3A		✓	DS18B20	1	✓	✓	24V	✓
C2103-D	✓	✓	✓	3A/24V	3A/24V		3A	✓	✓	DS18B20	2	✓	✓	24V	✓
C2104	✓	✓	✓	3A/24V	3A/24V				✓	DS18B20	1	✓		24V	✓
C2105	✓	✓	✓	3A/24V	3A/24V			✓	✓	DS18B20	1	✓		24V	✓
C2105-P	✓	✓	✓	3A/24V	3A/24V			✓	✓	PT100	1	✓		24V	✓
C2105-Y	✓	✓	✓	3A/24V	3A/24V			✓	✓	DS18B20	1	✓		24V	✓
C2107	✓	✓	✓	3A/24V	3A/24V		3A/24V	✓	✓	DS18B20	1	✓	✓	24V	✓
C2108	✓	✓	✓	3A/24V	3A/24V		3A/24V	✓	✓	DS18B20	2	✓	✓	24V	✓
C2110	✓	✓	✓	3A/24V	3A/24V		3A/24V	✓	✓	DS18B20	1	✓	✓	24V	✓
C2111	✓	✓	✓	3A/24V	3A/24V		3A/24V	✓	✓	Wireless	1	✓	✓	24V	✓
C2112	✓	✓	✓	3A/24V	3A/24V			✓	✓	DS18B20	1	✓		24V	✓
C2112-P	✓	✓	✓	3A/24V	3A/24V			✓	✓	PT100	1	✓		24V	✓
C2116	✓	✓	✓	3A/24V	3A/24V		3A/24V	✓	✓	DS18B20	2	✓	✓	24V	✓
C2132		✓	✓	3A	3A			✓	✓	PT100	1	✓		12V	

LED	Lo	Hi	Cool	Heat	Defrost	Pum.	Alarm	Off	S	Ch	Pro.g	Clock	Power	R485
LED	Low	High	Cool	Heat	Defrost	Pump	Alarm	Off	SPDT	channel	Menu	Clock	Power	RS485

Brewing Controller

Description

C2109 is an item of gang controller which can control pump according to time. As a centralized pump controller, it can realize the centralized control of pump according to different status of controllers. It can control 4 pumps simultaneously. Besides, it has RS485 communication. It is widely used in the fields of wine fermentation, beer brewing, dairy processing, etc.



Specifications

- Case: 191x90x45mm(ABS)
- Ambient Temperature: -20-70C
- Humidity: 10-90%
- Display: 3-digit red LED displays communication address and status
- Power: 24VAC/DC
- Function: 4-Pump control / Communication RS485
- Relay Output:
 - Relay for Output 1 3A./24VAC(DC)
 - Relay for Output 2 3A./24VAC(DC)
 - Relay for Output 3 3A./24VAC(DC)
 - Relay for Output 4 3A./24VAC(DC)

MODEL	LED	Lo	Hi	Cool	Heat	Defrost	Pum.	Alarm	Off	S	Ch	Pro.g	Clock	Power	R485
C2109	✓						3A/24V					✓	✓	24V	✓
C2109-ZD	✓						3A/24V					✓	✓	24V	✓
C2109-S							✓	✓	✓			✓		220V	

LED	Lo	Hi	Cool	Heat	Defrost	Pum.	Alarm	Off	S	Ch	Pro.g	Clock	Power	R485
LED	Low	High	Cool	Heat	Defrost	Pump	Alarm	Off	SPDT	channel	Menu	Clock	Power	RS485

Digital Thermometer

Description

These are digital thermometers. It adopts fully sealed stainless steel case, which enables it to have a good function of waterproof. Besides, it has characteristics of high accuracy, wide range, high stability, energy-effective, long lifespan etc. It is widely applied to the fields of food processing, food-keeping, chemical engineering and so on.



Specifications

Case: SUS304

Protection class: IP65

Temperature range: -50-125C/-58-257F

Ambient Temperature: -20-50C

Update rate: 10seconds

Sensor: NTC

Accuracy: +/-1C@ -20C-80C, other +/- 2C

Resolution: 0.1

Connection: 1/2"NPT, 1/4"NPT, M12x1.5 (optional)

Stem length: D8x228mm(optional)

		
LCD	LOW	High
		
Sensor	channel	Power

MODEL						
D1220	✓	✓	✓	NTC	1	Solar
D1221	✓	✓	✓	NTC	1	Battery
D1224	✓	✓	✓	NTC	1	Battery
D1224-S	✓	✓	✓	NTC	1	Solar
D1225	✓	✓	✓	NTC	1	Battery

Oxygen Controller

Description

WJ203/WJ204 is one oxygen controller specially designed for fermentation process. With features of high accuracy and stability, waterproof, corrosion-resistant, it is widely applied to fields of wine fermentation, beer brewing, food processing, chemical- engineering and pharmacology for oxygen dosage control.



WJ203	Case :	350x300x250mm (SUS 304)
	Power:	110-220VAC
	Ambient Environment :	-20C-70C, 30%RH-85%RH
	Display:	128x64 dots LCD
	Temperature control:	Temperature range: -9.9~99.9C/F
		Resolution: 0.1
		Sensor: DS18B20, 1.5M(Optional, Max 130M)
	Accuracy:	±0.5C
	Control mode:	Display/heat/cool/OFF/auto heat and cool
	Micro-oxygen control:	Pressure range: 0-8 Bar
		Accuracy: ±0.25%FS
		Pressure resolution: 0.001
		Oxygen mode: mg/L/day, mg/L/mouth(optional)
	Connection pipe:	Φ6mm
	Control mode:	Manual/Auto
	Function:	Temperature control and display/ temperature alarm/C or F shiftoxygen control/display of oxygen control process/alarm against wrong oxygen control
Relay output:	Relay for Heating 3A 24VDC	
	Relay for Cooling 3A 24VDC	
	Relay for O2/1 6W	
Case:	153x90x60mm	WJ204
Working temperature:	0~50C	
Display:	LCD 1602	
Accuracy:	0.01mg	
Mini oxygen-input pressure:	1.000bar	
Max oxygen-input pressure:	8.000bar	
Function:	Control of oxygen dosage/ alarm Against wrong oxygen control	
Power:	24VDC/1A	

Electronic Control Cabinet

Description

WJ201/WJ202 is an item of temperature control cabinet which is waterproof and corrosion-resistant. It can install 30pcs or 12pcs of temperature controller C2102 or C2106. Each controller is a separate control unit. It can control 30/12 equipments, which is independent from each other. It can realize centralized control and management of temperature. It can realize the bi-directional communication with PC via RS485. It is widely applied to wine fermentation and dairy processing fields, etc.



Specifications

Ambient Temperature:	-20-70C
Humidity:	10-90%RH
Power:	220VAC/110VAC
Temperature range:	-9.9-99.9C/14-212F
Accuracy:	+/-0.5C
Resolution:	0.1@<100, others 1@>100
Relay output:	Heating 3W 24VAC Cooling 3W 24VAC
Display:	3-digit LED displays temperature parameter LED light displays status
Sensor :	DS18B20, 1.5m(Optional Max130m)
Communication:	RS485
Functions:	Display/Heating/cooling/Heating and Cooling/OFF/C or F shift/Alarm

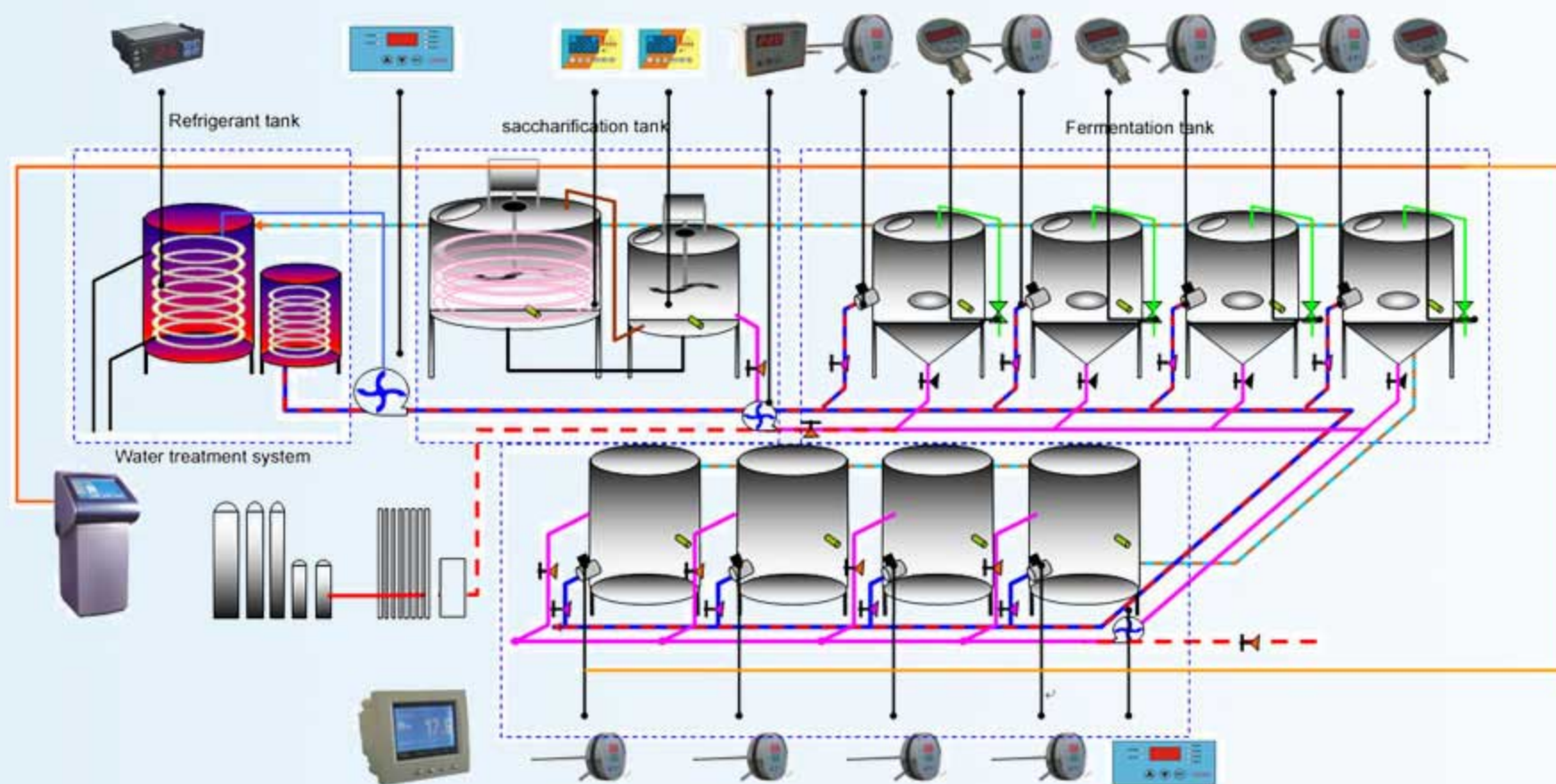
Code No.	Case Size	Sensor No.	Relay output	Communication
WJ201	850x700x250mm	30	24V	RS485
WJ202	600x500x250mm	12	24V	RS485

Control System



1. Wine and Beer Processing Control System

The system is a man-machine interface control system applied for wine and beer processing, which is made up with C21XX series controller, pump controller (C2109,C2109-D,C2109-S), pressure controller (PD306), saccharification controller (C2132) and CS001. In such way it can realize the central control of temperature, pressure, refrigerant control in the processing of wine or beer. Besides, it has the characteristic of simple-operation, energy-saving etc.



2. Supermarket temperature monitoring system

The system is made up with C12XX series temperature controller and CS200 software. It can realize the central temperature monitoring of different kinds of display case and also data processing etc.