

www.mbsm.pro , Contrôleur de température numérique / thermoélectrique / pour système frigorifique ou couveuse , STC-200+ , STC-1000+

written by mahdi miled | 5 March 2017

Le contrôleur de température de STC-200+ est conçu avec l'arrangement séparé de menu d'utilisateur et de menu d'administrateur. Les options incluses dans cette unité sont alarmantes, chauffage, et modules de frigorification. Ce cooller de la température est applicable à tous les types d'entreposage au froid qui exige la température accrue. Il est également approprié au réfrigérateur de l'eau et à la machine de fruits de mer.

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KI&BNT® STC-1000 Operation Instruction

Main function
Switch the modes between cool and heat; Control temperature by setting the temperature set value and the difference value; Temperature calibration; Refrigerating control output delay protection; Alarm when temperature exceeds temperature limit or when sensor error.

Specification and size
 ◆Front panel size: 75(L)×34.5(W)(mm)
 ◆Product size: 75(L)×34.5(W)×65(D)(mm)
 ◆Mounting size: 71(L)×29(W)(mm)
 ◆sensor length: 2m(include the probe)

Technical parameters
 ◆Temperature measuring range: -50°C ~ 99°C
 ◆Accuracy: ±1°C(-50°C ~ 70°C)
 ◆Power supply: 220VAC±10%, 50/60Hz
 ◆Sensor: NTC sensor (1PC)
 ◆Relay contact capacity: Cool(10A/250VAC);Heat(10A/250VAC)
 ◆Ambient temperature: 0°C ~ 60°C
 ◆Relative humidity: 20 ~ 85%(No condensate)
 ◆Resolution: 0.1°C
 ◆sensor error delay: 1 minute
 ◆Power consumption: <3W
 ◆Storage temperature: -30°C ~ 75°C

Panel instruction

Display instruction: Three-digit LED + Minus digit + Status indicator light
(Status indicator light (Cool, Heat) + Set indicator light (Set))
Key instruction: "S" key: the key to set; "▲" key: Up key; "▼" key: Down key; "⏻": the key to turn on and off the power

Indicator light status instruction

Indicator light	Function	Note
Cool indicator light	On: Refrigeration starts; Off: Refrigeration stops; Flash: compressor delay	Cool, Heat indicator light can not be "on" status simultaneously
Heat indicator light	On: heating starts; Off: heating stops	
Set indicator light	On: parameter setting status	

Key operation instruction

- The way to check parameter:
Under normal working status, press and release "▲" key once instantly, it displays temperature setting value; press and release "▼" key once instantly, it displays the difference value. It back to display the normal temperature display status in 2s.
- The way to set parameter:
Under controller normal working status, press "S" key for 3s or more to enter parameter modifying mode, and the "Set" indicator light on, screen displays the first menu code "F1".
Press "▲" key or "▼" key to adjust up and down and display the menu item and the code of the menu item. Press "S" key to display the parameter value of the current menu. Press both "▲" key and "▼" key simultaneously to choose and adjust the parameter value of the current menu value promptly. After finishing the setting, press and release the "⏻" key instantly to save the parameter modified value and return to display the normal temperature value. If no key operation within 10 seconds, system won't save modified parameter, screen back to display normal temperature.
Screen display "Er" if error appears during parameter saving, and back to normal working status in 3 seconds.
- Restore system data
When electrified, system will check itself, screen will display "Er" if error exit, please press any key at this time, and it restores default value and enter into normal working mode. It is advised to reset the parameter value under such conditions.

Operation instruction
Under controller normal working status, press and hold "⏻" key for 3s can turn off the controller; Under controller "off" status, press and hold "⏻" key for 3s can turn on the controller.
Under the controller normal working status, screen displays the current measuring temperature value; also the controller can also switch the working mode between heating and cooling.
Controller starts refrigerating with cool indicator light on when the measuring temperature value ≥ temperature set value + difference value, and the refrigerating relay is connected; If the "Cool" indicator light flashes, it indicates the refrigerating equipment is under compressor delay protect status; when the measuring temperature values temperature set value, the Cool indicator light on, and refrigerating relay disconnects.
System starts heating when the measuring temperature value ≤ the temperature set value - difference value, and the "Heat" indicator light on, the heat relay connects; When the measuring temperature ≥ temperature set value, the "Heat" indicator light is off, and the heat relay disconnects.

Menu instruction

Code	Function	Set range	Default	Note
F1	Temperature set value	-50.0 ~ 99.9°C	10.0°C	
F2	Difference set value	0.3 ~ 10.0°C	0.5°C	
F3	Compressor delay time	1 ~ 10 minutes	3 minutes	
F4	Temperature calibration value	-10.0°C ~ 10.0°C	0°C	

Error description
Alarm when sensor error: Controller activate the sensor error alarm mode when sensor open circuit or short circuit, all the running status is closed off with the buzzer alarms, and the nixie tube displays "EE". Press any key can cancel alarm sound, system back to display the normal temperature when the error and the fault is cleared.
Alarm when the measuring temperature exceeds temperature measuring range: Controller activates the error alarm function when the measuring temperature exceeds the temperature measuring range, all the running status is closed off with the buzzer alarms, and the nixie tube displays "HF". Press any key can cancel alarm sound, system back to display the normal working mode when the temperature restore to normal measuring range.

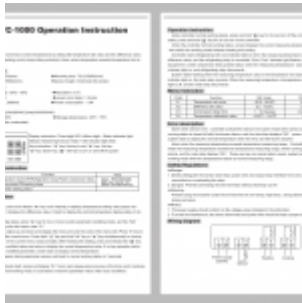
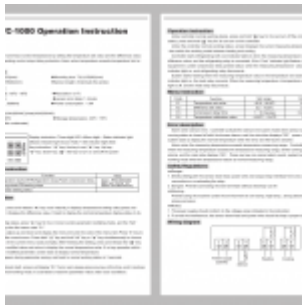
Safety Regulations
 ★Danger:
 1. Strictly distinguish the sensor down-lead, power wire and output relay interface from one another, and prohibit wrong connections or overloading the relay.
 2. Dangers: Prohibit connecting the wire terminals without electricity cut-off.
 ★Warning:
 Prohibit using the machine under the environment of over damp, high temp., strong electromagnetism interference or strong corrosion.
 ★Notice:
 1. The power supply should conform to the voltage value indicated in the instruction.
 2. To avoid the interference, the sensor down-lead and power wire should be kept a proper distance.

Wiring diagram

VI. 1

PictureS Mbsm Dot Pro : www.mbsm.pro

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Picture5 Mbsm Dot Pro : www.mbsm.pro

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