

Stc 3018 Dual Digital Temperature Controller Thermostat

February 11, 2021 [Ivan](#) [Leave a comment](#)

This is a very similar thermostat as the STC-3008 I reviewed earlier, In this article I will focus on the controller STC-3018, you will learn the pros and cons of how to set it up and the complete manual.

Temperature controller STC-3018 has the same appearance as the mentioned thermostat STC-3008 probably the biggest difference is one relay output compared to two relays at stc 3008 .

Useful features automatic conversion of refrigeration and heating mode more in setting manual. Control mode of return difference- Hysteresis can set with temperature display resolution 0.1.Support temperature correction calibration with 0.1 steps.

Have memory support for power loss (the parameters of the sudden power failure are still valid).

Multiple alarm mode selection high and low alarm is very usefull.

Application range is like home temperature control, farm, various cold storage, greenhouse, aquarium, etc. Temperature controller can buy in voltage version 12V,24V and 110/220V.

Its biggest disadvantage is that it is almost the same as the STC-3008 thermostat and you can easily mistake it. Even the STC-3018 has two sockets per temperature sensor, but one is inactive or comes with only one sensor.

The software menu is also a completely different temperature controller similar to the one on the KT1210W.

My verdict is that the STC-3018 is better than the KT1210W thermostat because in the new versions they can be set only after 1 degree Celsius with the STC-3018 controller you can set the temperature in 0.1C steps.

If I compare STC-3018 and STC-3008, then STC 3008 is better in that there are two thermostats in one box, STC 3008 offers more value for the price of the device. (the price of the devices is similar, you can get them for 10-12USD, including postage)

Pros:

0.1 control steps (include calibration and hysterezy-return diference point)

Compatible dimensions with other temperature controllers

High and low alarm

Cons:

The device does not have a big weakness, the biggest one is perhaps that you can easily replace it with STC3008 and buy something different than you originally wanted.

Wiring diagram, manual and instructions

Instructions for use:

Press the RST button for 3 s to start the thermostat.

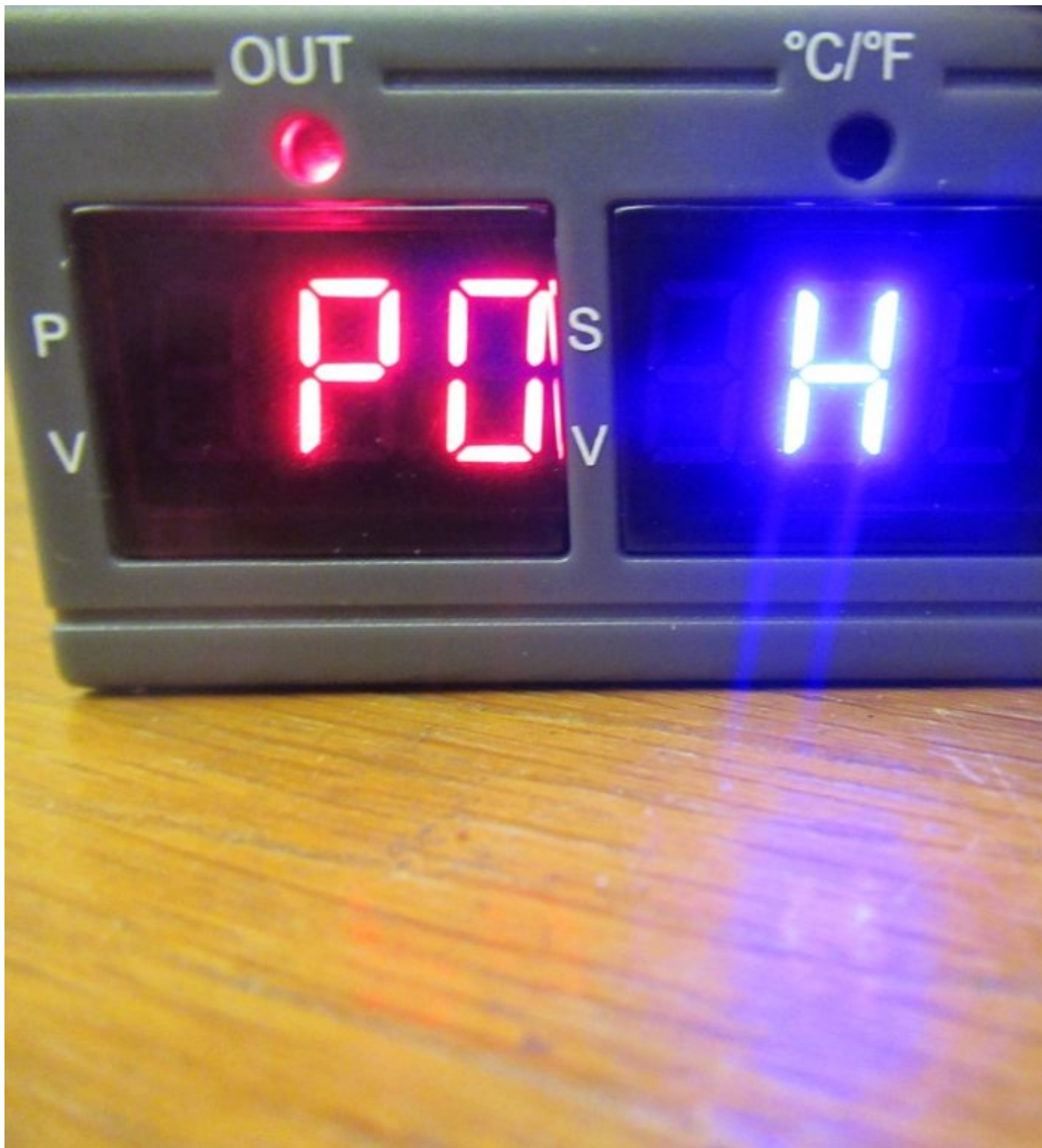
Press again for 3 s to turn it off. When the power is applied, the thermostat switches on automatically.

Pressing the S button for 3 s puts the thermostat in the setting mode, pressing it again flashes the red display and the desired value can be selected with the arrows.

P0 – Operating mode – H / C, heating / cooling, (factory heating)



C- Cooling mode



H-heating mode

P1 – Hysteresis, 0.2 ° C ~ 10 ° C, (factory 2 ° C) The hysteresis is the difference required when the thermostat reaches the set temperature and stops working again. For example, if we set the heating mode to a temperature of 37-40 degrees, then the difference is 3



hysteresis

P2 – Upper audible alarm setting $-55 \sim 120^{\circ}\text{C}$, (factory 80°C) When the temperature reaches the set value, there will be an alarm action and stop working.



Max temperature alarm

P3 – Lower audible alarm setting $-55 \sim 120^{\circ}\text{C}$, (factory -55°C) low temperature alarm value When the temperature is lower than the set value, there will be an alarm action and stop working.



Low temperature alarm

P4 – Temperature calibration, comparison and possible adjustment against the actual temperature, $-10^{\circ}\text{C} \sim 10^{\circ}\text{C}$, (factory 0°C) These functions are used for temperature calibration. If there is a deviation between the detected temperature and the actual temperature, some functional effects can be used. The positive value = measured value + corrected value. For example, we measure the temperature at 25.6 degrees and actually 25.8 degrees. P4 can be used. Set to 0.2 then the final temperature is $25.6+0.2=25.8$



Calibration make more precision

P5 – Time delay, 0 ~ 60 minutes, (factory 0 minutes) Press and hold the RST button to switch the thermostat on / off. his function is generally used for compressor refrigeration. If you purchase some thermostats for the refrigerator freezer, this value must be set. According to the compressor back pressure, the general setting is 3-6 minutes.

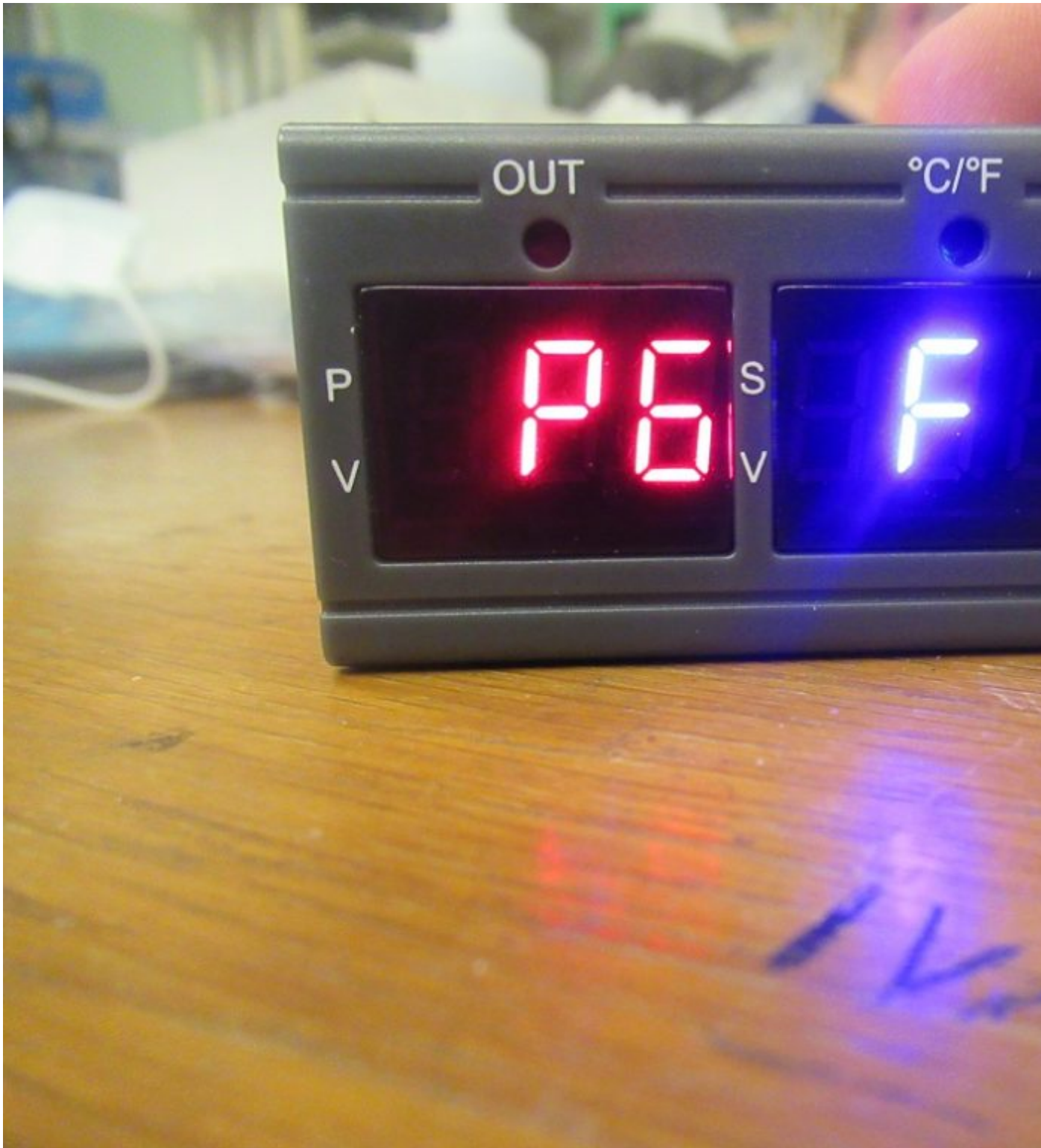


Delayed start protect compressor

P6: C/F conversionIf you want to change to F value, change the unit to F, the unit display light is on. If you want to change it to C value, change the unit to C, the unit display light is not bright. If you want to convert quickly, exit the display, long press You can quickly convert units by adding 3 seconds.



Can switch controller in Celsius degree



Can switch controller in Fahrenheit degree



Technical parameters:

Display Type: Digital

Temperature sensor: NTC 10K

Senor length:1.0m

Temperature measuring range: -55 ° C ~ 110 ° C

Resolution: 0.1 ° C

Accuracy:±1° C

-Power supply: 110-220VAC 50/60Hz, 12V DC , 24V DC(Please choose power supply when ordering)

Power consumption:<3W

Storage temperature: -30 ° C ~ 75 ° C

Relative humidity: 20% ~ 85% (No condensate)

Relay capacity: 10A/240VAC; 10A/240VAC

Shell Material: Gray ABS Flame Retardant Plastic Shell