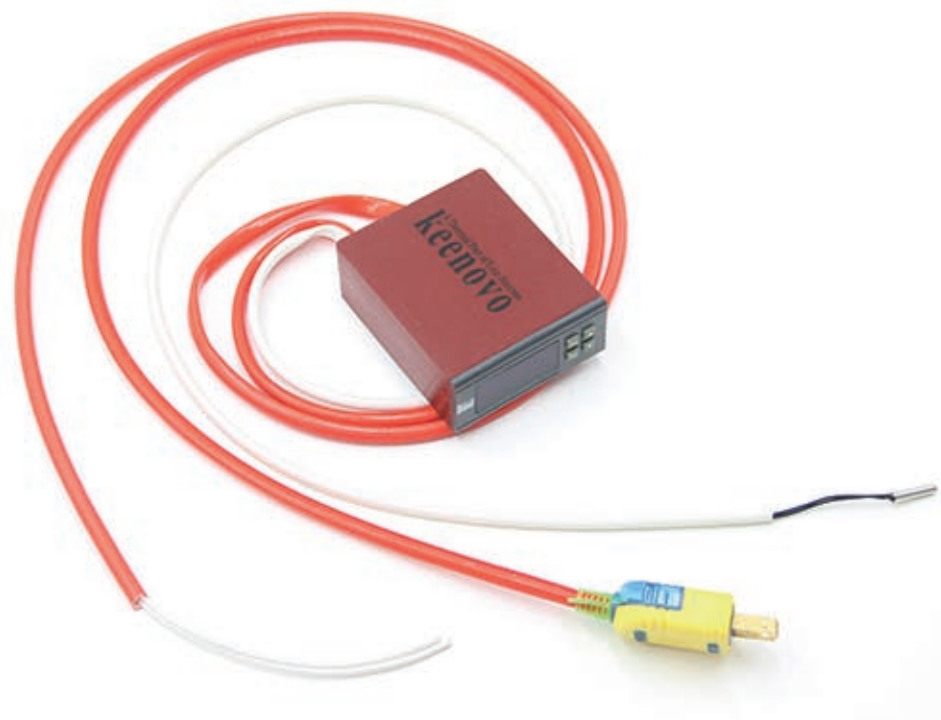


A Thermal Part of Your Success
keenovo



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Keenovo Digital Controller Manual

Basic Setting

1. Set the Target Temperature

- Press the " set " key for once to enter the TEMPERATURE setting mode
- Press the " UP " key (Triangle) or the " DOWN " key (Inverted Triangle) to raise or lower the numbers till the desired temperature is reached. (One press to change by one degree or press & hold the key for speedy change.) Default value for temperature control is 55 Deg C or 63 Deg F when set to Display in Fahrenheit.
- Press the " set " key again and be back to the working mode.

2. Turn On/Off

- Press AND hold the "RST" key for 3 seconds to " Power Off" and one press on it again to " Start Up".

3. System Menu Setting (see Menu details at article 4 below)

- Press AND hold the " set " key for 3 seconds to enter the SYSTEM MENU setting mode
- Press the " UP " or the " DOWN " key to find the values(symbols) to be adjusted. Check article 4 for the meaning of the symbols.
- Press the " set " key and the current value is good to be adjusted, then Press the " UP " or the " DOWN " key to modify the value.
- Press the " set " key again to confirm the modification and be back to the system menu again.
- One press on the "RST" key or leave it for 5 seconds till the controller automatically exit the SYSTEM MENU setting mode.

4. System Menu (Basic)

Symbol	Description/Meaning	Example	Note
HC	Heating/Cooling	Heating as a Heater, Cooling as a refrigerator	H= Heating Mode C=Cooling Mode
D	Delay in Control	When the target temperature is set to 100 Deg C, and " D " set to 5, the controller ceases output at 105 Deg C and come back again at 95 Deg C.	1 Deg C or F by default
LS	Low Limit of temperature setting	Seldom Used	
HS	High Limit of temperature setting	Seldom Used	
CA	Temperature Compensation	When the temperature value measured from the sensor is 100 Deg C, the controller displays 101 if "CA" set to 1, 102 if "CA" set to 2, or 99 if "CA" set to -1.	0 by default
PT	Postponed Startup	Seldom Used	
AH	Alarm on Higher Temperature than the set value	A beep sound when the measured temperature is higher than the target temperature. Screen display "H" and current temperature alternatively.	ON by default Set to 0 to turn it off
AL	Alarm on Lower temperature than the set value	A beep sound when the measured temperature is lower than the target temperature. Screen display "L" and current temperature alternatively.	ON by default Set to 0 to turn it off
AT	Timer Function	Set a time in minutes for the controller to stop output.	invisible before being activated (see "Advanced Setting" below)

Advanced Setting (AS)

1. RULE NUMBER ONE

Once the AS is entered (even if no change is made), the controller is restored to Cooling mode and factory setting. AFTER exit the AS menu, please DO follow article 3 under the Basic Setting part above to set its HC value to be H (heating mode), or the controller will take the heater as a cooler and controls it the opposite way, which is very dangerous as not only the heater is endangered with premature failure, a fire accident might also happen. So every time AS is entered, the first thing to do after the re-start of the thermostat is to set HC value to H. This is the RULE NUMBER ONE. All other values under the Basic Menu such as the target temperature are also restored to default values.

2. What can AS do?

- Activate the timing function
- Change display from Degree Celsius to Fahrenheit
- Adjust control accuracy between 1 Deg and 0.1 Deg

3. How to Enter and Make the Changes?

- Press & hold the " set " key as well as the " UP " key at the same time for 3 seconds to enter the ADVANCED FUNCTION setting mode
- Press the " UP " or the " DOWN " key to find the parameters(symbols) to be adjusted. Check article 5 below for the meaning of the symbols.
- Press the " set " key and the current value is ready to be adjusted , then press the " UP " or the " DOWN " key again to adjust the value.
- Press the " set " key again to confirm the modification and be back to the previous menu again.
- One press on the "RST" key to exit and the controller will re-start automatically.

4. Important Notes:

- Please remember Rule Number One and the First Thing to do AFTER the controller RE-START is to set the controller to Heating Mode.
- The "AT"(timing function) menu appears under the SYSTEM menu when "DL" is set to be ON. You will have to enter the System Menu Setting mode to set the time. It's 0 (zero) by default which means timing function inactive. You can set a time (in minutes) and the timing function is activated.
- Under timing function, the controller will start output ONLY when you press the "RST" key. For example, if you set a time of 120 minutes, it only start heating with your press on the "RST" key and when the time is finished, the controller stops output(it's still on, just no output), one press on the "RST" key to start heating again. The screen displays the current temperature and "off" alternatively.
- The screen displays the current temperature and the remaining time alternatively when in working mode.

5. System Menu (Advanced)

Symbol	Description/Meaning	Example	Note
C/F	Celsius/Fahrenheit		Choose between display in Degree C or F
ST	Accuracy of temperature controlling	When set to 01, you can change the temperature by 0.1 Degree at a time.	01=0.1 Degree 10=1 Degree (10 by default)
DL	Timing Function	Choose between ON and OFF	OFF by default, ON= timing function activated
U	Timing Mode	Choose between ON and OFF	OFF= Time counts when the target temperature is reached; ON= Time counts once the controller starts heating