DIGITAL TEMPERATURE THERMOSTAT
AC-112
User Manual

Instructions:

AC-112 is one of latest developed thermostat which are widely applied to aquarium, reptile market, incubators, green house, refrigerator etc. places where is required constant temperature.
One channel is for temperature controlling (heating or cooling).

Main features:

1. LED display, friendly interface, easy to read, operates, and set the parameters.
2. Can choose COOL or HEAT mode.
3. Can switch between ℃ and ℉.

Main Functions and Parameters:

◆ Temperature controlling range: 16~40℃
◆ Temperature measuring range: -40~100℃
◆ Resolution: 0.1℃; Accuracy: ±1.0℃
◆ Input: 1 NTC sensor
◆ Relay: 10A/220V(standard); 16A/220V(optional)
◆ Product consumption: ≤3W
◆ Input voltage: 220Vac±15%(standard), 110Vac±15%(optional)
◆ Ambient Requirements: Temperature: -10~60℃;Humidity: 20%~85%℃
◆ Output: resistive load≤1100W/220V, inductive load≤275W/220V, filament lamp≤220W/220V

Keys:

KEY	ACTION	RESULT	STATUS
H/C	single press	switch between HEAT and COOL mode	In normal work status
SET	single press	enter into setting mode of DIFF and DELAY	In normal work status
	single press	save and exit	In setting status
	press 5 sec.	switch between ℃ and ℉ mode	In normal work status
UP	single press	enter into setting mode of stop temperature	In normal work status
UP	single press	upward adjust the parameter value	In setting status
DOWN	single press	downward adjust the parameter value	In setting status
DOWN	single press	enter into setting mode of stop temperature	In normal work status

Icons:

ICON	MEANING			STATUS
	Display	Not display	Flash	
SNOW	cool working	cool not working	/	In normal work status
SUN	heat working	heat not working	/	In normal work status
COOL	cool mode	non cool mode	/	In normal work status
HEAT	heat mode	non heat mode	/	In normal work status
DIFF	/	/	DIFF adjustable	In setting status
DELAY	/	/	DELAY adjustable	In setting status

Menu Instructions:

PARAMETER	SET RANGE	DEFAULT	INCREMENT	UNIT
Temperature	16.0~40.0	26	0.1	℃
DIFF	0.0~5.0	2.0	0.1	℃
DELAY	0~150	30	1	Second

Controlling function:

FUNCTION	CONDITIONS OF OUTPUT	CONDITIONS OF STOP OUTPUT
COOL	1.In cool mode	1.In cool mode
	2.Measuring temp.≥Stop temp. + DIFF	2.Measuring temp.≤Stop temp.
	3.Time period of first power on or the previous stop and this start ≥ DELAY	
HEAT	1.In heat mode	1.In heat mode
	2.Measuring temp.≤Stop temp. - DIFF	2.Measuring temp.≥Stop temp.

Parameters setting:

Parameters would be set according to the following circular mode in the first time; All the parameters are set and saved instantly.
First of all, make sure the power is on.

1. Choose HEAT/COOL mode:

Press H/C key to switch mode between HEAT and COOL in normal working status.

2. Set DIFF and DELAY(temperature difference and compressor delay):

Press SET key in normal working status to display the default DIFF value while icon DIFF flashing, then press UP or DOWN key to adjust the ideal temperature difference you want. Then press SET key to display the default DELAY value while icon DELAY flashing, then press UP or DOWN key to adjust the ideal compressor delay time you want. Then press SET to save and exit.

3. Stop temperature setting:

Press UP or Down key in normal working status to display the default stop temperature value while icon ℃/℉ flashing, then press UP or DOWN key to adjust the ideal stop temperature you want.

Attention please:

Please avoid overload, load short circuit, misuse, human damage, which is not covered by the warranty.

Product picture: