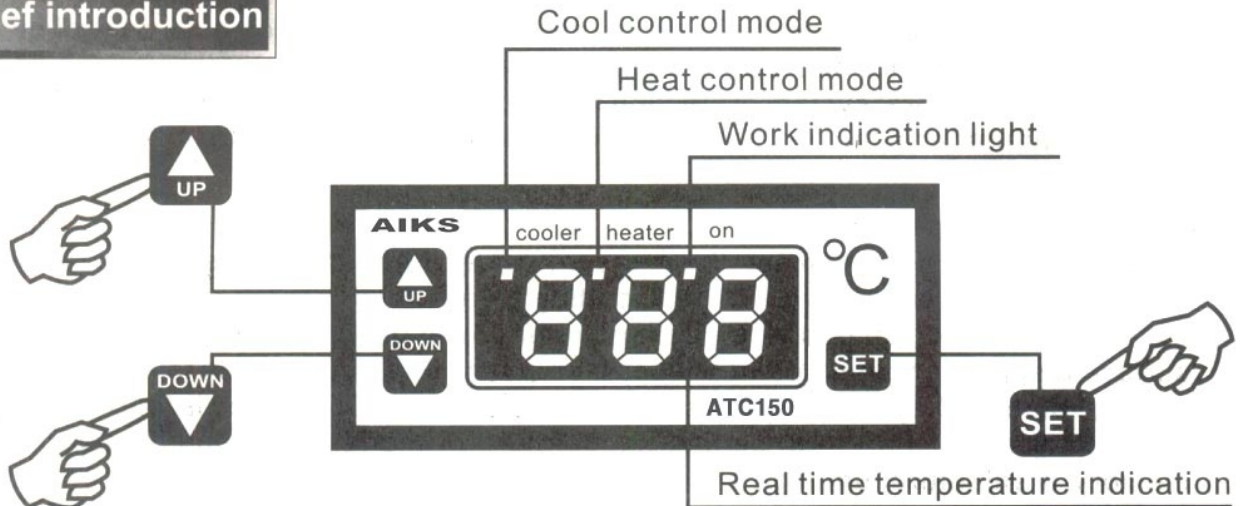





Brief introduction






Second step:
Push  or  key to change the control temperature

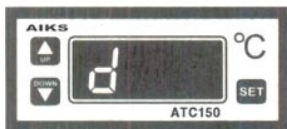
First step:
Push  key to display control temperature




Instruction for control program

Keep pushing  key to get into setting program, when get into the setting program, it will display **HC**, press  or  key to change into **HC-PL**.






Push  key, while pushing  or  key to choose **HC**






Push  key, while pushing  or  key to choose return difference 1°C~15°C.






Push  key, while pushing  or  key to choose min temperature limit -40°C~85°C.






Push  key, while pushing  or  key to choose max temperature limiting -40°C~85°C.



Push  key, while pushing  or  key to choose temperature correct -15°C~15°C.



Push  key, while pushing  or  key to choose delay start 1~3mins

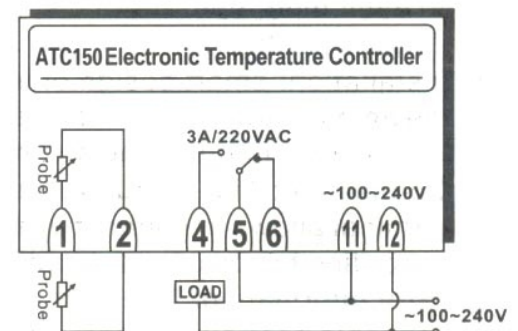


Error symbol: When the sensor is short circuit or node and cathode is inversely connected, it will appear "EI" symbol.

Program parameter diagram

Sign	Item	Content	The setting of leave factory	Unit
HC	Heat/cool	H/C	C	
d	Return difference	1~15	1	°C
LS	Min limit	-40~85	-40	°C
HS	Max limit	-40~85	85	°C
CR	Correct	-15~15	0	°C
PL	Delay	1~3	1	mins

Temperature control connection diagram



Introduction for ATC150 Electronic temperature controller

The function of each button of this instrument is obvious, it realizes auto-control by relay on and off, cool device turns off automatically or start as temperature various, in addition, it supplies several system protection methods that are easy to understand and master. Much parameter is the characters that can be displayed, it is suitable for setting each function.

1. Parameter setting operation:

- 1) Power on indication, it can see the measure value, if not amend the setting, it will run automatically with original storage setting data.
 - 2) Amend controlled temperature setting: under power on state, push SET key, the surface displays original setting value, then push UP or DOWN key to amend the setting value, UP key is for adding setting of temperature, DOWN key is for reducing the setting of temperature, setting temperature of the last inputting is stored in memory, it will return running state after stopping pushing 4s.
 - 3) Cool / heat work mode [HC] setting: the product is cool work mode [C] before marketing, it amends to heat mode if demanded, it can push SET key to display original setting value, after keeping 3s, it will display HC, meanwhile you can press UP or DOWN key to display H, at last, the cool mode transfers to heat work mode, if changing H to C mode, the mode is the same operation, stopping SET key, push DOWN key, transfer to d setting, it will return running state after stopping pushing 4s.
 - 4) Return-difference value [d] setting: (definition of return-difference value: under rapid tested temperature various, in order not to make cool machine be off/on state frequently, it will set the return-difference value.) The cool should depend on setting value, the temperature difference between test temperature and set temperature gets to return-difference value, the machine can start to cool again, the heat is the same, for example: when cool, the setting temperature is +18°C, the return-difference value is set +2°C, if only the test temperature is to +20°C, the relay would break to conduct, the machine can cool, push SET key into parameter program, after display HC, push UP or DOWN key to display [d], then push SET key to display [d] original setting value, push UP or DOWN key at the same time to change the d value, it will return running state after stopping pushing 4s.
 - 5) Min temperature limit setting [LS]: push SET key to get parameter, and display [LS], push SET key to display LS original setting value, push UP or DOWN key at the same time to change LS value, stop pushing SET key, push DOWN key to HS setting, it will return running state after stopping pushing 4s.
 - 6) Max temperature limit setting [HS]: display [HS] operation is the same as the lowest temperature limit setting.
 - 7) Temperature error correcting setting [CR]: when the test temperature is different from real temperature, push SET key to display [CR], the test temperature is higher than real temperature, push DOWN key at the same time to display negative value, on the contrary, push UP key to display positive value.
 - 8) Compression set delay protection setting [PE]: delay starting time before starting each time, operate to display [PE], push UP or DOWN key to choose delay time from 1 to 3 mins.
2. Installation: smart design of machine, the case dimension is 76mm × 33mm × 81mm, the ambient temperature of instrument must keep -5°C ~ +65°C, the instrument must put in location without damp and high voltage, and it is ventilated to radiate.
 3. Connection: The instrument is suitable for wire less than 2.5mm², (each connection terminal allows to connect one wire, conform to VDE standard), it must supply power according to power specification on instrument.
 4. Error information: The instrument only supplies one error information "EI", if only the sensor is destroyed, short circuit or not installed, it will display "EI".