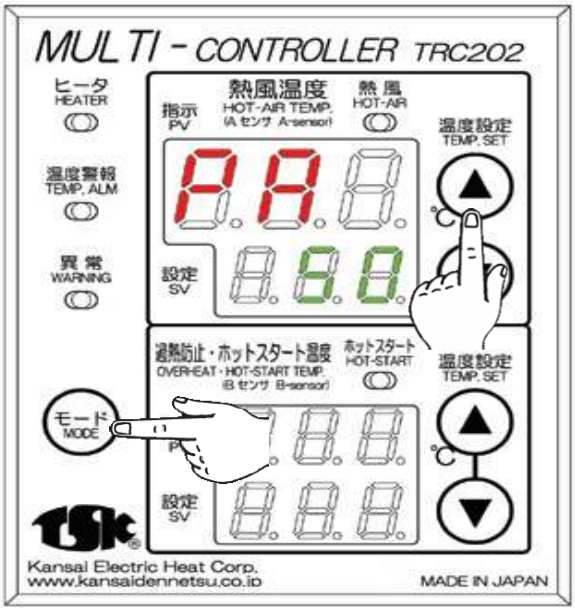
1 Unlocking

To use the convenient functions, you need to change each parameter. Before changing each parameter, unlock the parameters first.

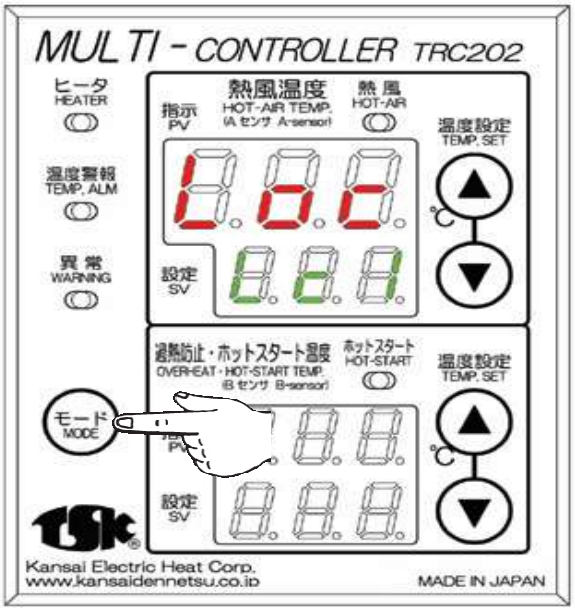
①While holding the mode switch, press and hold the hot air temperature upfor about 2 seconds.

The setpoint PV section will display 'PA' and the setpoint SV section will display '50'.

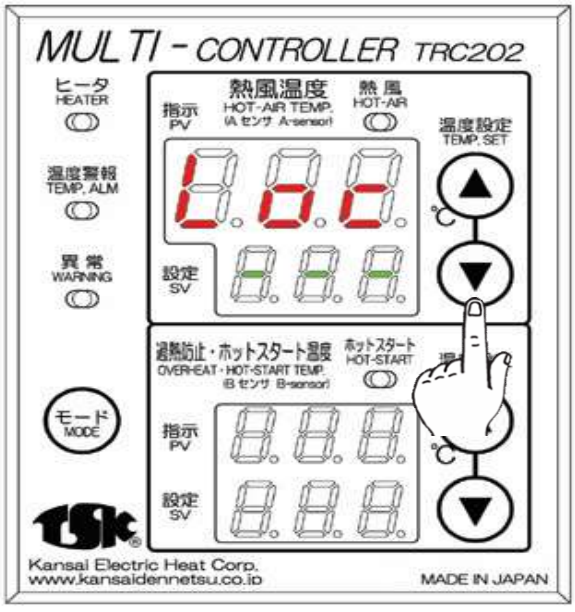


②Press theswitch five times.

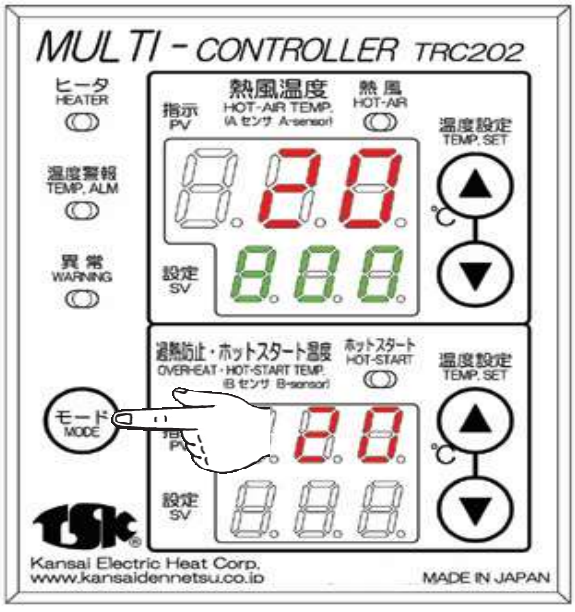
The PV display will show 'LOC', and the SV display will show 'LC1'.



③Use the down key to change the SV setting section to '---'.. The settingwill display'.



④After changing, press the mode switch once to return to normal operation. This completes the lock release.



*The factory default lock mode is LC1. '-----' unlocks the device, while 'LC2' locks only the temperature setting and other settings. and prevent incorrect settings, you can change it to 'LC2' for use.

To relock after unlocking, follow the same procedure as above and change the display from '---' to 'LC1' on the instruction PV section.

2 Changing the Temperature Alarm Mode

The temperature alarm mode is set to the upper/lower deviation alarm mode with standby at the factory. You can change this alarm mode.

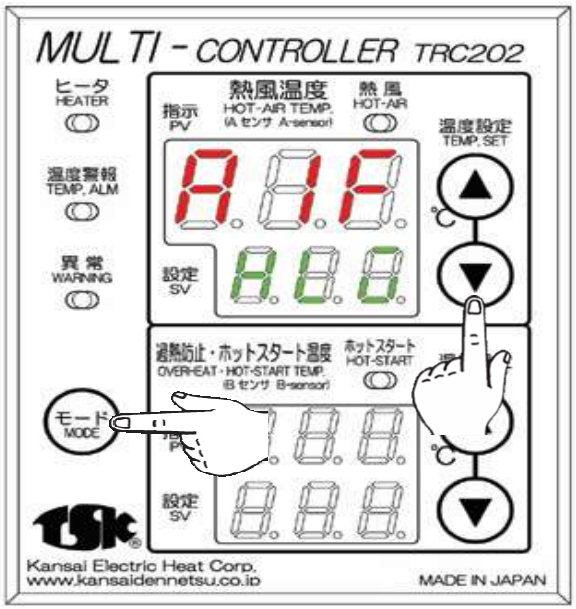
Changeable Alarm Mode

Setpoint	Alarm Mode	Alarm Operation: When outlet temperature setting is 150 and temperature alarm setting is 50lower limit deviation alarm and standby lower limit deviation alarm with −50 setting Alarm output turns ON within the shaded area.
- - -	No alarm operation 『－－－』	No alarm operation
H	Upper Limit Deviation Alert 『H』	50 100 150 200 250 300
L	Lower Limit Deviation Alarm 『L』	50 100 150 200 250 300
HL	Upper/Lower Deviation Alarm 『HL』	50 100 150 200 250 300
oId	Upper/Lower Limit Deviation Range Alarm	50 100 150 200 250 300
AH	Upper Limit Absolute Value Alarm 『AS』	50 100 150 200 250 300
rAH	Lower Limit Absolute Value Alarm 『RAS』	50 100 150 200 250 300
Hd	Upper Limit Deviation Alarm with Standby	50 100 150 200 250 300
Ld	Lower Limit Deviation Alarm with Delay	50 100 150 200 250 300
HLd	Upper/Lower Deviation Alarm with Standby	50 100 150 200 250 300

*Standby mode means that when hot air operation starts, even if the setpoint (measured value) is within the alarm range, the alarm does not turn ON immediately. It will only activate once the value exits the alarm range and then re-enters it. enters the alarm range again. Only the lower deviation alarm and the lower deviation alarm with standby should have negative setpoints.

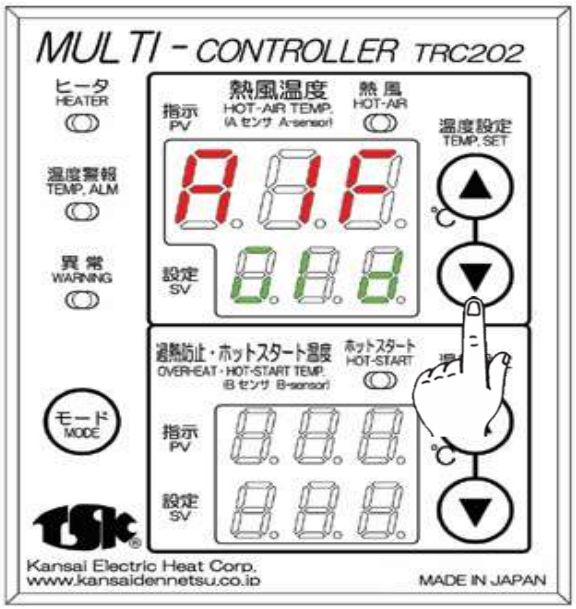
①After unlocking, press and hold the mode switch while pressing and holding the hot air temperature down key.Press and hold the Down key for thetemperature.

The PV display shows 'A1F', and the SV display shows 'HLW'.



②Use the up/down keys to change to the desired alarm mode.

After setting, press the mode switch seven times to return to the normal operation display. Return to the normal operation display.



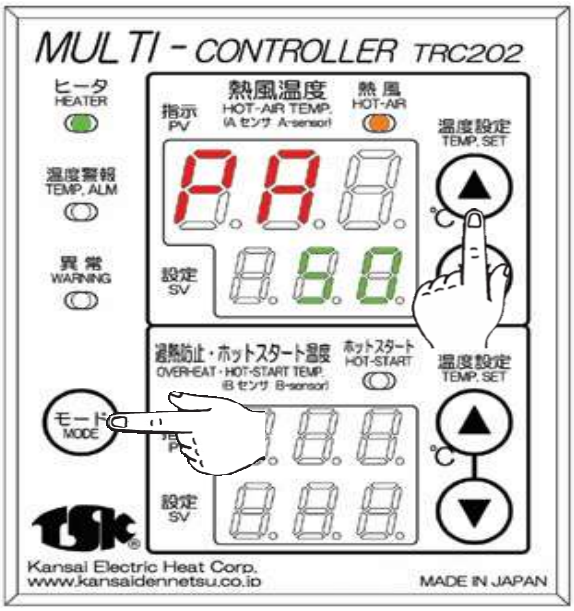
※After changing the temperature alarm, lock the settings again before starting operation.

3-1 Auto Tuning (Hot Air Temperature)

If the set temperature fluctuates during normal hot air operation, performing auto-tuning may stabilize the set temperature. may stabilize the set temperature.

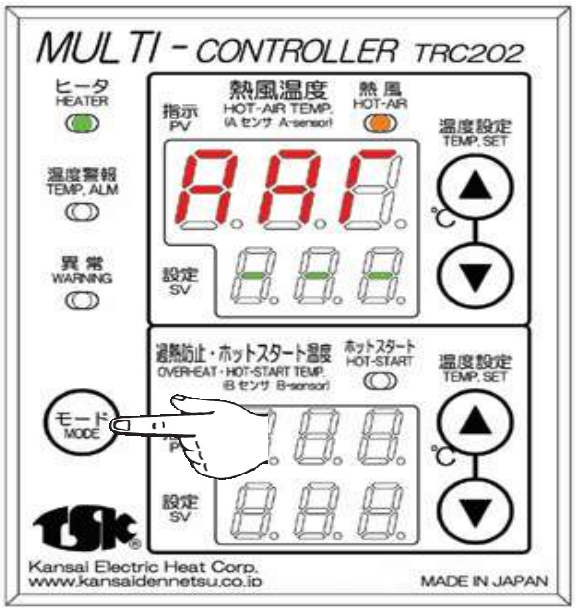
①After unlocking, press the mode switch while in normal hot air operation mode. while pressing the hot air temperature up keyfor2 seconds.

The setpoint PV section will display 'PA' and the setpoint SV section will display '50'.

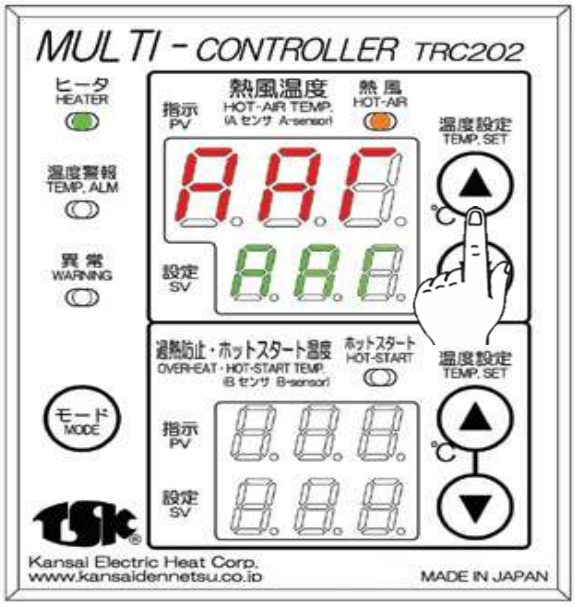


②Press theswitch four times.

The setpoint PV section displays 'AAT', and the setpoint SV section displays '---'.

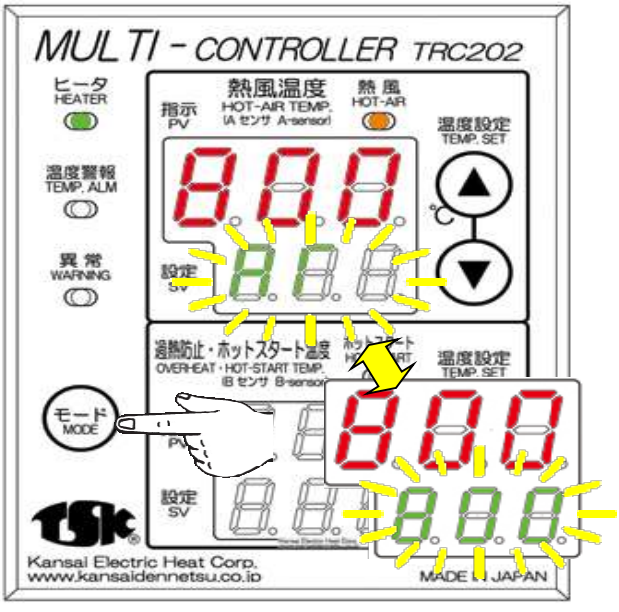


③Use the hot air temperature up key to change '---' to 'AAT'..change



④After setting, press the mode switch twice to return to the normal operationreturn to thedisplay.

The SV setting section will display 'AT' and the set temperature flashing alternately.



The SV setting section will display 'AT' and the set temperature alternating while flashing as heating begins. After auto-tuning completes, the flashing stops and normal hot air operation resumes mode.

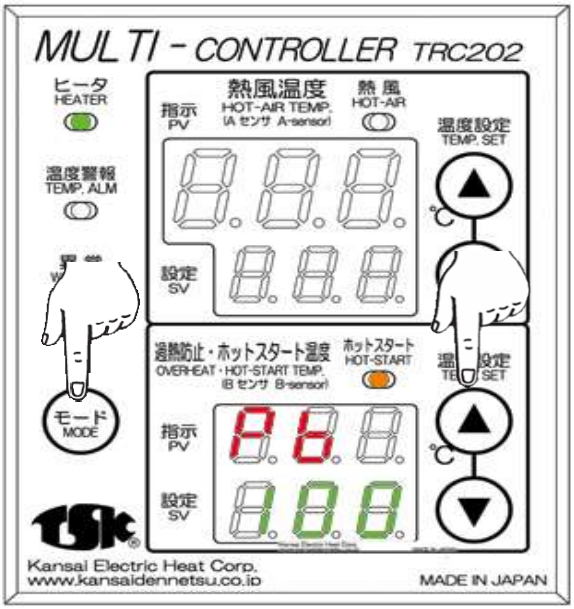
※If the set temperature fluctuates even after performing auto-tuning, please contact us. Also, after auto-tuning is complete, and resume operation.

3-2 Auto Tuning (Hot Start Operation Temperature)

If the indicated temperature fluctuates relative to the set temperature during hot start operation, performing auto-tuning may stabilize the indicated temperature.may stabilize the indicated temperature.

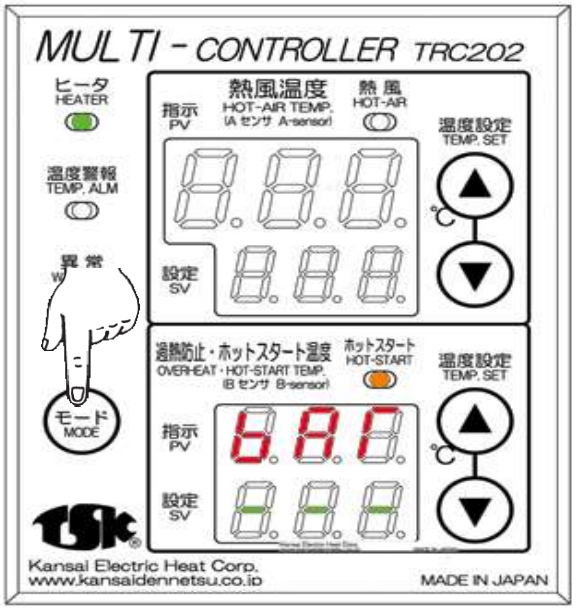
①After unlocking, in hot start operation mode, press the mode switch Press and hold the mode switch while in overheat prevention/hot starttemperup key for approximately 2 seconds.

The setpoint PV section will display 'Pb', and the setpoint SV section will display '100'.

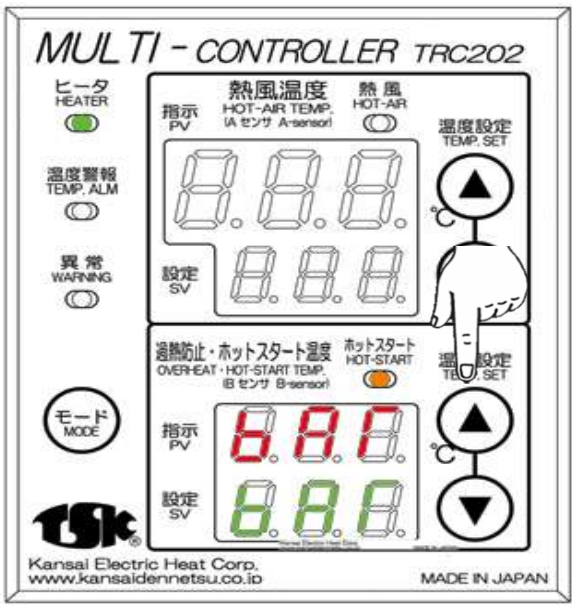


②Press theswitch four times.

The setpoint PV section displays 'bAT', and the setpoint SV section displays '---'.

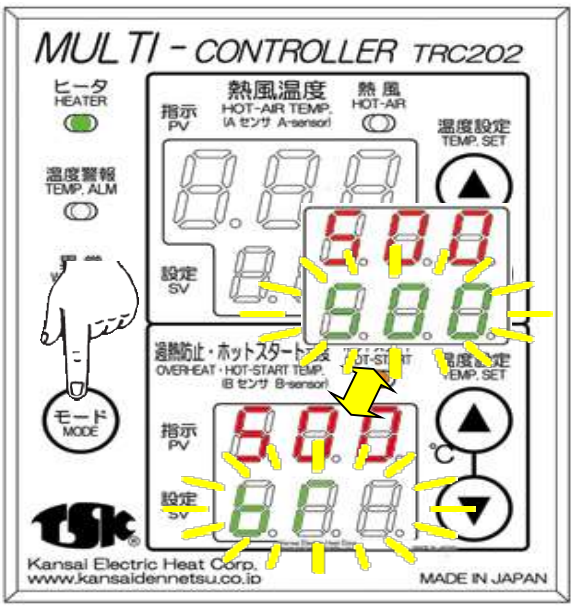


③the up key for the overheat prevention temperature/hot start temperatureto change '------' to 'bAT'.



④After setting, press the mode switch twice to return to the hot startreturn to the display of thestate.

The SV setting section will display 'bT' and the set temperature flashing alternately.



The setpoint SV section will begin heating while alternately flashing 'bT' and the set temperature. After auto-tuning completes, the flashing stops and the unit enters hot start hot air operation mode.

※If the set temperature fluctuates even after performing auto-tuning, please contact us. Also, after auto-tuning is complete, and resume operation.

4 Heater Output Display

You can check the current heater output during hot air operation or hot start operation. Use this data for heat consumption calculations. (Current control is performed at the lower output displayed).

①During hot air operation or hot start operation, press and hold the mode switch (A1 display appears).1 display appears).

The current heater output (%) will flash alternately in the 'OUT' and setting sections of the hot air temperature and overheat prevention/hot start temperature setpoint (SV) areas. The current heater output (%) will flash alternately in the 'OUT' and setting sections.

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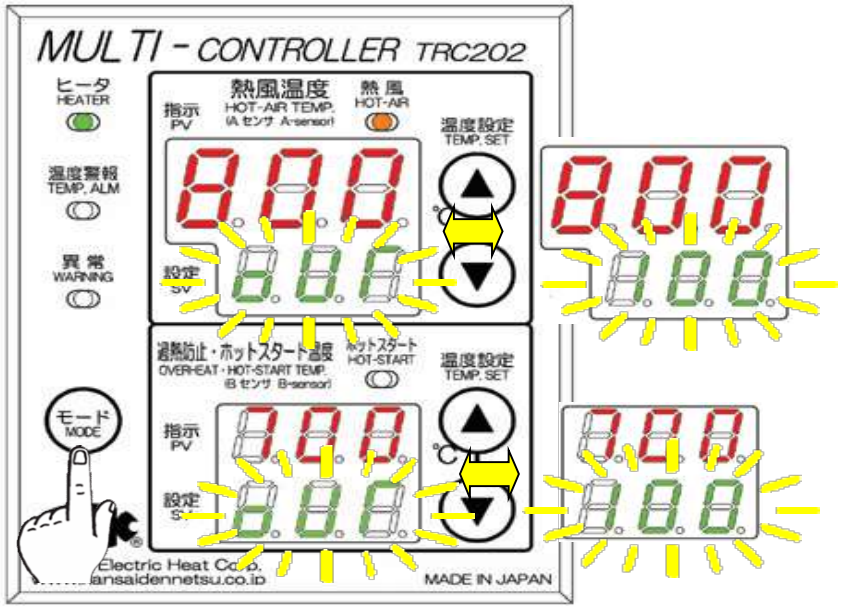


※ No need to unlock.

※ Pressing the Mode key once returns the display to normal operation status.

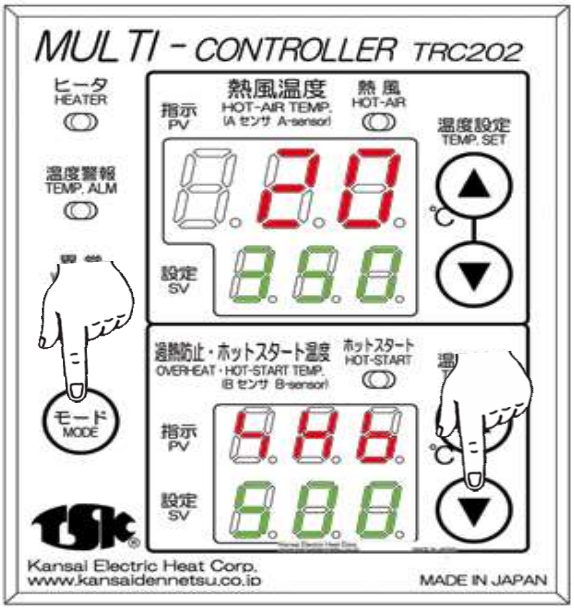
5 Changing the Airflow Reduction Detection Inactive Period

When the overheat prevention temperature (B sensor temperature) is 80° C or more higher than the outlet hot air temperature (A sensor temperature), airflow reduction is detected and the overheat prevention control activates. However, since a 10-second delay period is set between this airflow reduction detection and the overheat prevention control activation, the overheat prevention control will not activate if the temperature difference is resolved within 10 seconds.

Therefore, during hot start operation, if the outlet hot air set temperature is 100° C or more below the hot start set temperature, after switching to hot air operation, the overheat prevention control may activate, causing the outlet hot air temperature to drop sharply. In this case, you can delay the start of the overheat prevention control operation by increasing the inactive time before it activates (to 40 seconds or more).

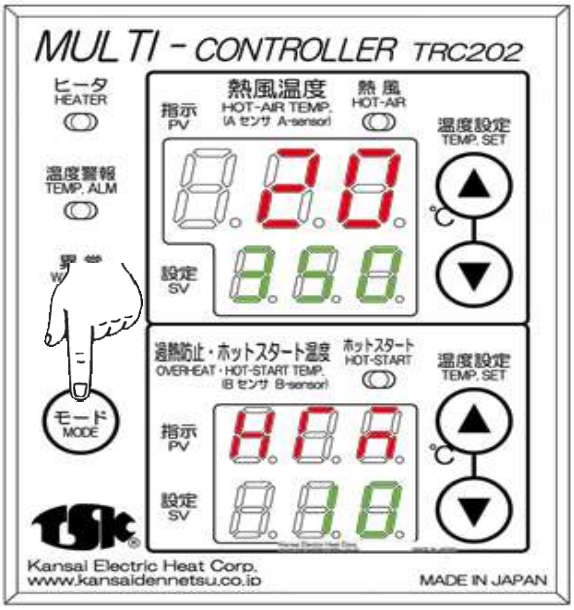
①After unlocking, press and hold the mode switch while pressing the overheat Prevention/Hot Start Temperature Down Key for approximately 2 seconds.

The display PV section will show 'SHB', and the setting SV section will show '500'.

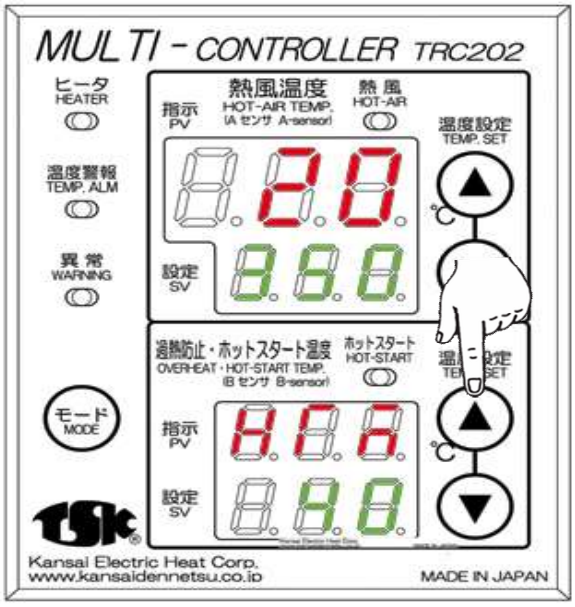


②Press theswitch four times.

The setpoint PV section will display 'HTM', and the setpoint SV section will display '10'.



③Use the up key for overheat prevention/hot start temperaturechange '10' to '40'.



④After setting, press the mode switch twice to return to normal operation and lock it again..