

ATC-210 Operation Instructions

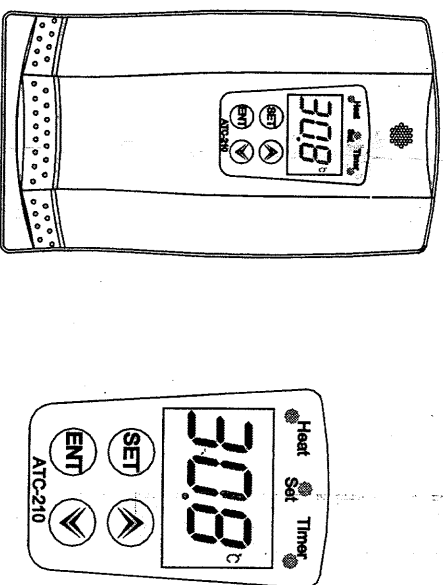
1. Main functions:

1. Temperature control: Adjust heating efficiency according to environment temperature. Different temperature control alternative for daytime and nighttime mode;
2. Timing control: two timing output alternations of ON and OFF for every 24 hours;
3. Sound alarms when exceeding temperature limit and mute sound manually;
4. Temperature dial calibrated in Fahrenheit and Centigrade.

2. Technical parameters:

1. Measuring range:
temperature sensor: -40°C~100°C;
2. Temperature resolution:
For centigrade -9.9°C~99.9°C, 0.1°C, Others:1°C;
For Fahrenheit 1°F;
3. Accuracy: -10°C~50°C: ±1°C/2°F, Others: ±2°C/4°F ±0.5 digit;
4. Sensor error delay: 1 minute;
5. Temperature control range: 0°C~50°C;
6. Power supply: 220VAC+10%/-15%, 50Hz~60Hz;
7. Consumption: <4W;
8. Controlling output capability:
Heating: 50W~600W resistance load, 220VAC;
Timing: 5A/220VAC;
9. Operating temperature: 0°C~50°C;
10. Storage temperature: -30°C~75°C;
11. Relative humidity: 20~85% (No condensate).

3. Panel diagram:



The screen displays the measuring temperature in normal working status.



Key-press: : upward, replaced by ▲ in Operation Instructions;



: downward, replaced by ▼ in Operation Instructions;

SET : setup;

ENT : affirmance.

4. Indicator lights:

Indicator Light	Symbol	Status	Function
Heating light	Heat	shine	heating output
Timing light	Timer	constant light	timing output
Setup light	Set	constant light	parameter setting
°C light	°C	constant light	Centigrade
°F light	°F	constant light	Fahrenheit

5. Operation instructions:

1. Examine information:
In normal working status:
▲ : press to display daytime temperature;
▼ : press to display nighttime temperature;
ENT: display system time, (format hr.10min);
Exit in 3 sec.
2. Parameter setting:
A. In normal working status, press **SET** for more than 3 sec. screen displays parameter code "F01", and Setup light shines. Press ▲ or ▼ to choose the parameter code;
B. After choose the parameter code, press **SET** key to display the set value. Press ▲ or ▼ to modify the set value, press **SET** again to return and display the next parameter code;
C. Press **ENT** for more than 3 sec to save the modified value and return to the normal working status. If there's no operation in 30sec, the machine will return to the normal working status without saving any modification. Setup light off when exit parameter setting status;
D. "Err" display when saving parameter error and return to normal working status in 3 sec.
3. Time setting:
A. In normal working status, press **ENT** for more than 3 sec to display "Hr", and Setup light shines;
B. Press **SET** to display the present set value, press ▲ or ▼ to modify the set value, press **SET** to enter minutes setting;
C. Press **ENT** for more than 3 sec. to save the modified value and return to normal working status. If there's no operation in 30sec, the machine will return to the normal working status without saving any modification. Setup light off when exit Time setting status;
D. "Err" display when modifying system clock error and return to normal working status in 3 sec.
4. System data recovering:
Controller will check parameter setting once electrifying, and display "Err" if check the damaged parameter. Press **SET** will get back default setting only when parameter damaged. Suggest reset parameters then.
6. Output control:
1. Heating: Controller will distinguish day and night according to the set daytime starting and ending time, then control temperature according to daytime and nighttime temperature set value. It will modify heating power according to temperature set value and environment temperature change status, and stop heating when temperature sensor error.
2. Timing: Controller could set two timing start and end points controlled respectively by 1st timing starting time, 1st timing ending time, 2nd timing starting time and 2nd timing ending time. Set the same value with start and ending time will cancel this timing period.

Timer Status						
Currently time	<On1	<Off1	>=On1			
			>=Off1			
			>=On2			
			>=Off2			
Timer output	close	on	close	on	close	on