HOUSE OF

DURATECH

innovative pool products

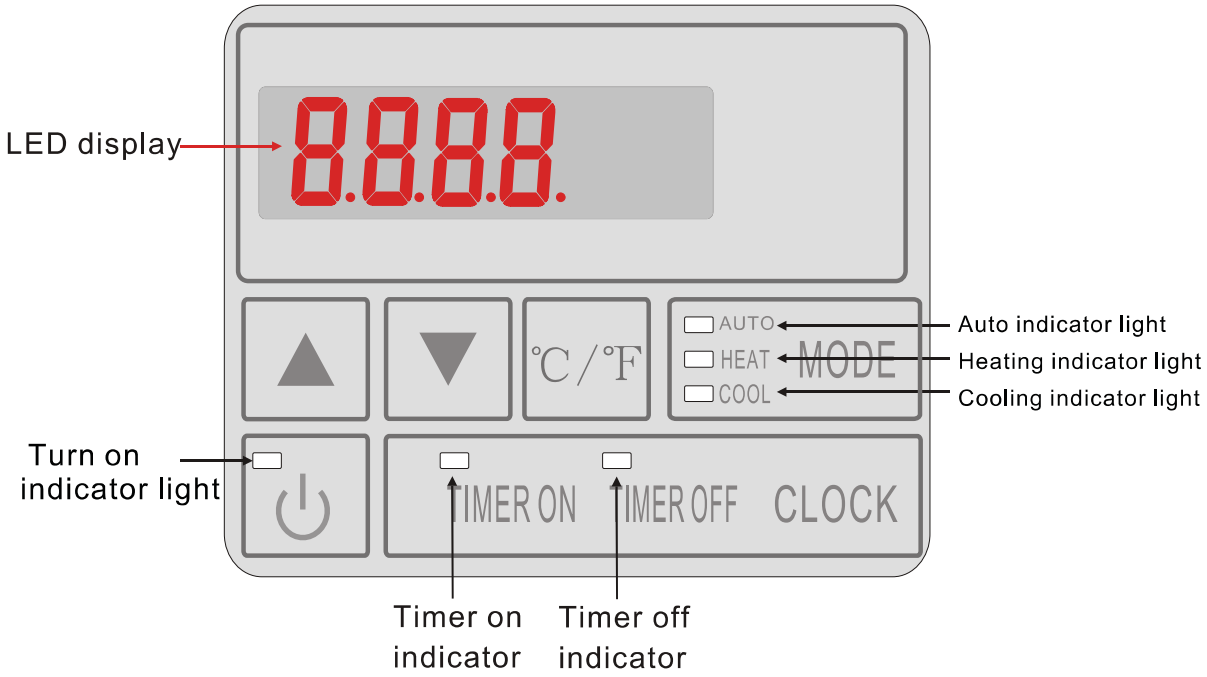
MANUAL

DURA+ display - ENG - sparepart
DISP-DURA-041

HEAT Dura+

Usage

1. Function of wire controller



Key	Key name	Key function
⏻	ON/OFF	Press this key to turn on/off the unit
MODE	Mode	Press this key to change the working mode
CLOCK	Timer	Press this key to set system time
℃/℉	Choose key	Press this key to choose the Celsius degree or Fahrenheit degree

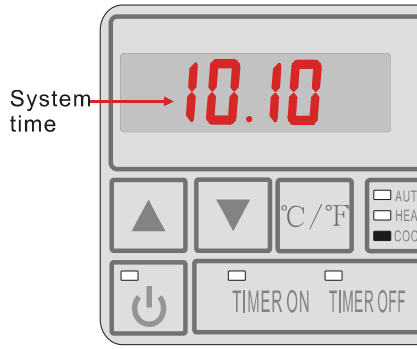
Usage

2.Usage of wire controlle

2.1 Turn ON/OFF the unit

When the unit is off, press

When the unit is on, pres



Standby interfac

2.2 Mode switch

You can choose unit mod

In the unit on or off state

pressing "MODE" butto

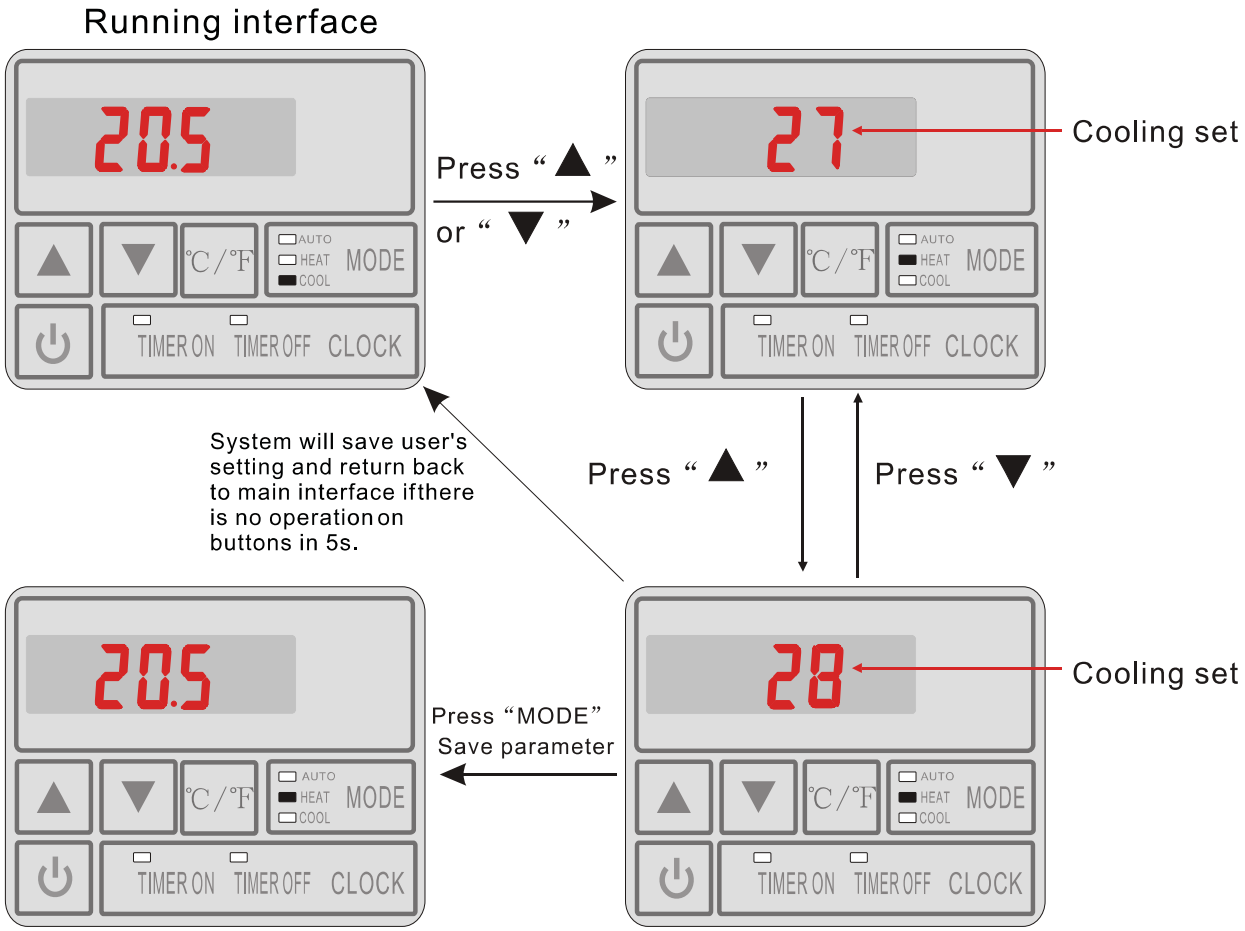
Attention: if the unit is on

2.3Temperature selectio

Usage

2.4 Setting temperature

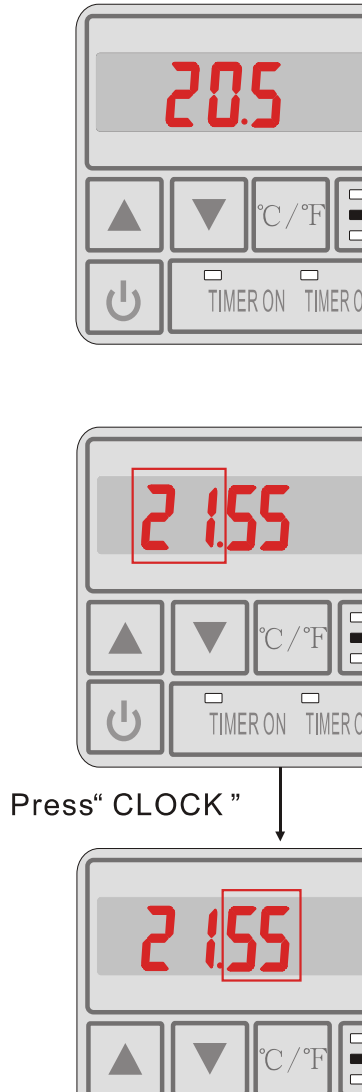
In the main interface，press “ ▲ ” or “ ▼ ” and the current mode target-temperature flashes, then press “ ▲ ” to increase the temp.value, or press “ ▼ ” to decrease it.
Press “MODE” can save setting parameter and back to the main interface;
Press “ ⏻ ” can not save setting parameter but back to the main interface;
Attention：If there is no operation for 5s，system would remember parameter setting and back to the main interface.



Usage

2.5 Clock setting

In the main interface，p
to increase value or pre
At the same time, minute
“ ▼ ” to decrease valu
Press “ ⏻ ” can not s
Attention：If there is no
back to the main interfac

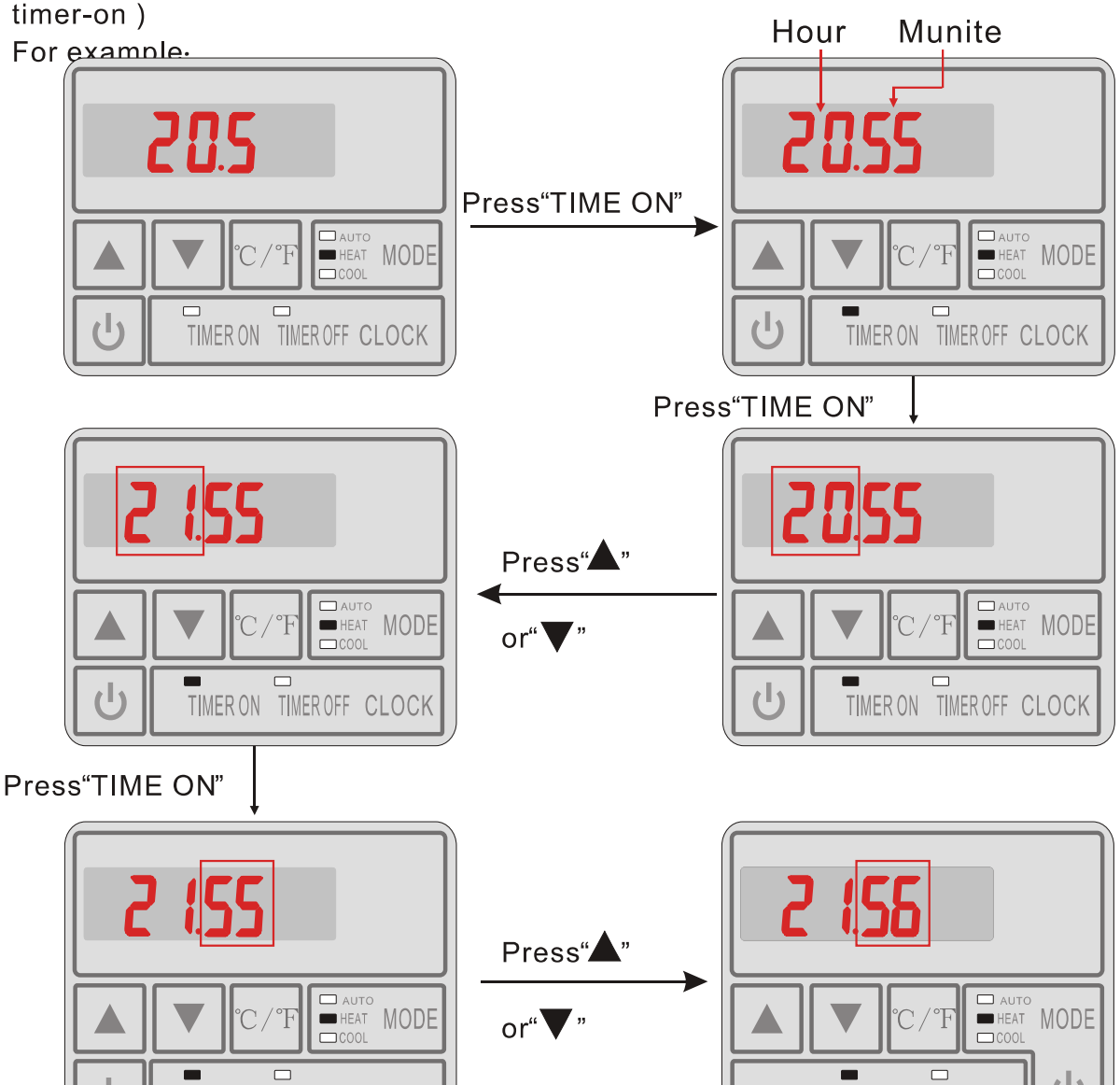


2.6 Timer setting

(1) You can set the timer of unit on

In the on or off state, Press "TIME ON" to enter timer-on interface, Press "TIME ON" and time-hour-bit flashing, Press "▲" or "▼" to change the hours value, Press "TIME ON" to save hours, At the same time, minutes-bit flashing, Press "▲" or "▼" to change the minute value, Press "TIME ON" to save and exit. At this time, "TIME ON" LED light is on. (The time-off setting is to press "TIME OFF", the other operation is the same as timer-on)

For example:



(2) The setting of cancelling t

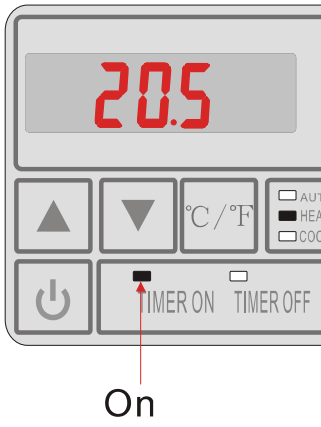
If there is no need to set ti

At unit on or off state, pres

“⏻” to cancel the time

(press “TIME Off” to en

“⏻” to cancel the time



2.7 Keyboard lock

To avoid mis-operations, p

At the main interface, pres

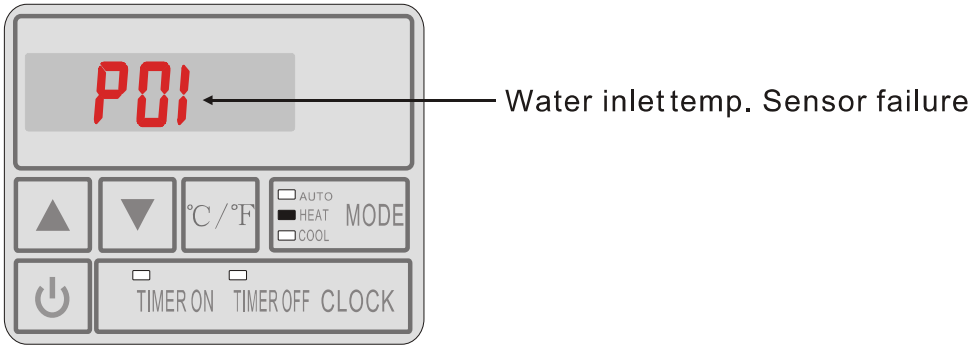
Usage

2.8 Malfunction display

There will be malfunction code showing on the controller screen when relative malfunction occurs.

You can refer to the malfunction table to find out the failure cause and solution.

For example :



3.Parameter table

Code	Meaning	Default	Remarks
r01	Set-point of cooling target temp.	27℃	Ajustable
r02	Set-point of heating target temp.	27℃	Ajustable
r03	Set-point of auto mode target temp.	27℃	Ajustable

Usage

3.Malfunction Table

The common failure cau

Malfunction	Di
Water inlet temp. Sensor failure	
Water outlet temp. Sensor failure	
Ambient temp. Sensor failure	
Pipe temp. Sensor failure	
Evaporator temp. Sensor failure	
Exhaust temp. Sensor failure	
High pressure protect	
Low pressure protect	
Flow switch failure	
Temp. is too much different between water-inlet and outlet	
Antifreezing under cooling mode	
The primary anti-freezing protection start.	
The second anti-freezing protection start	
Communication failure	

Usage

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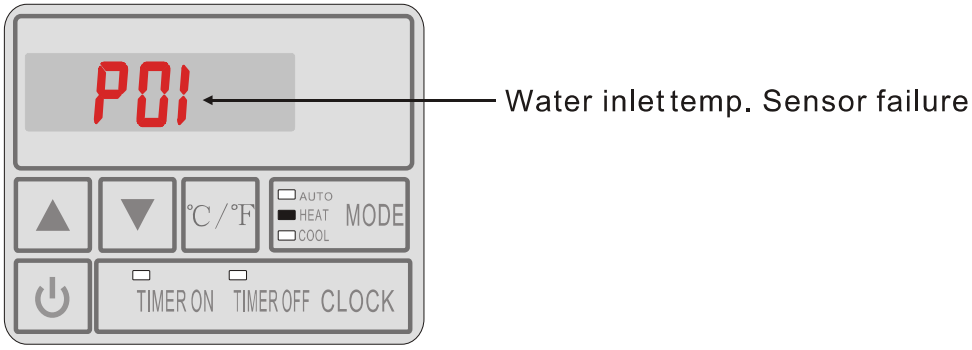
For example :



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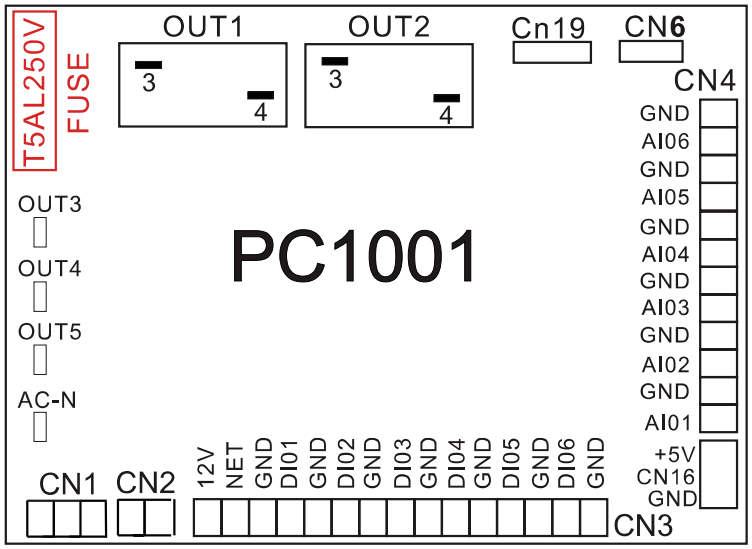
Communication failure	

PCB Connection

1.Connection of PCB illustration



Connections explanation:

No.	Symbol	Meaning
1	OUT1	Compressor of system1（220-230VAC）
2	OUT2	Water pump（220-230VAC）
3	OUT3	4way valve （220-230VAC）
4	OUT4	High speed offan motor（220-230VAC）
5	OUT5	Low speed offan motor（220-230VAC）
6	AC-N	Neutral wire
7	NET GND 12V	Wire controller
8	DI01 GND	On/Off Switch(input)(no use)
9	DI02 GND	Flow switch (input)(normal close)
10	DI03 GND	Low pressure protect
11	DI04 GND	High pressure protect
12	DI05 GND	No use
13	DI06 GND	No use
14	AI01 GND	Suction temp.(input)

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- HEAT **Dura Vi**
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