

INTRODUCTION OF WIRE CONTROLLER

Constitution of Wire panel

■ Parts of the panel are as follow

- 1) One wire controller DM602A
- 2) One electric control panel: LY516A or LY517A
- 3) Temperature probes (The number is depended on the actual order)
- 4) Others (No)

■ Connection wires specification of Control panels:

- 1) HT381 Conector cable: Solid cable diameter ($0.08-1.5\text{mm}^2$), specification (28-16AWG), Length of stripped wire (7mm), fixing screw (M2.0), screw torque (0.2-0.25NM)
- 2) HT508 Conector cable: Solid cable diameter ($0.20-2.5\text{mm}^2$), specification (24-12AWG), Length of stripped wire (7mm), fixing screw (M2.5), screw torque (0.4-0.50NM)

Product marking

Don't tear up the silver lable affixed to the front or back of the controller, for it will be helpful for check.

For example:

Product code: H. DM602A. 001

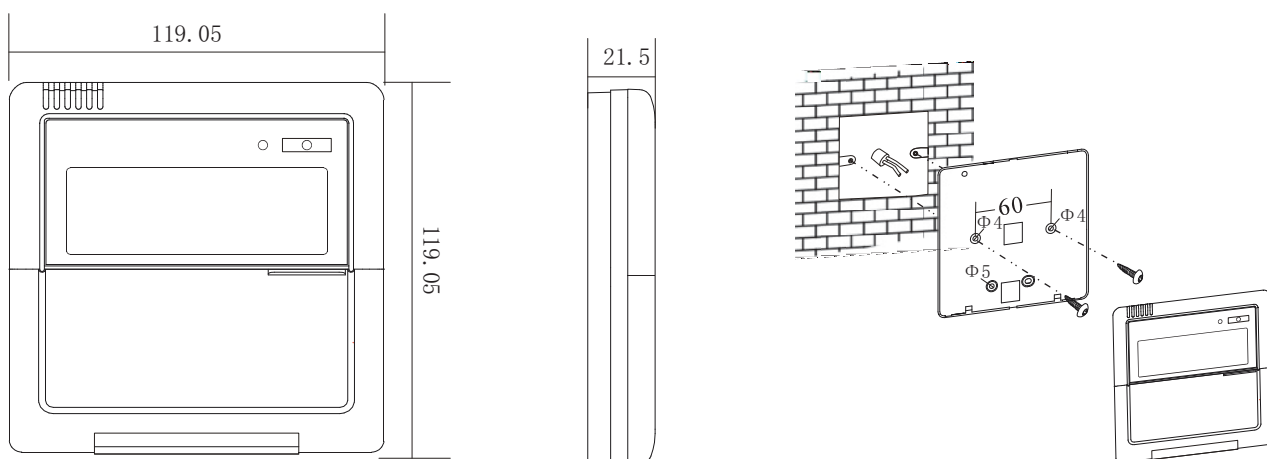
Product serial number: OW041622-090402-0251420

Function code of Delivery software: X1. DM602A. TY. F01C

Version number of Delivery software (Unit code) : V200A0 (I. DM602A. 001)

Monitor introduction

■ DM602A Monitor installation and its dimension: unit mm



■ Panel Introduction

- The number 0~7 can be used for password setting, while the number 8 and 9 will be replaced by 0 and 1 separately
- ON/OFF button, RESET button and SET buttons are not set with the corresponding number.

0_ TIME button: For setting the time;

1_ TIMER button: For setting the timing time;

SET button:

- Affirm the modification;
- Enter to the temperature setting interface by pressing it on the main interface;

2_ ADD button:

- For turning to the front page;
- For increasing the parameter value;
- 3_ SUB button:
- For turning to the next page;
- For reducing the parameter value;

4_ MODE button: It is used for setting unit modes;

5_ WATER LEVEL button: It is used for setting the water level;

Display screen

6_ CHECK button: For fault check

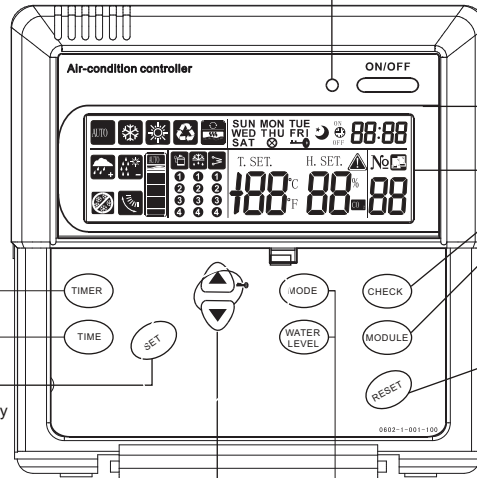
7_ MODEL button:

- It is used for module switching on the check interface;
- It is used for switching current setting position on the setting interface;

RESET button:

- The sound will be eliminated by pressing the button when the system gives a fault alarm;
- The fault will be reset by pressing the key for noalarmed case.
- The modification can not be saved by pressing it for returning operation

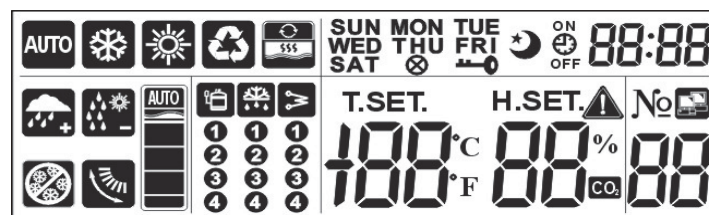
- LED:
- Yellow light turns on: Normal standby
 - Green light flashes: starting operation (standby → operating)
 - Green light turns on: Normal operating
 - Red light flashes: stopping operation (operating → standby)
 - Red light turns on: serious break-down



1. Long keys and key combination (Press down both keys at the same time)

- 1) : All keys will be locked/unlocked;
- 2) : Preheating operation will be cancelled;
- 3) Press down and hold for 3s: Timing function will be set;
- 4) : The current module will carry on forced-defrost operation ;
- 5) Press down and hold for 3s: The system will enter to the interface for factory setting;
- 6) : The system will enter to the interface for maintenance setting;
- 7) Press down and hold for 3s: The system will enter to the interface for project setting;
- 8) Press down and hold for 3s: The system will enter to the interface for monitor setting;

2. Display section:



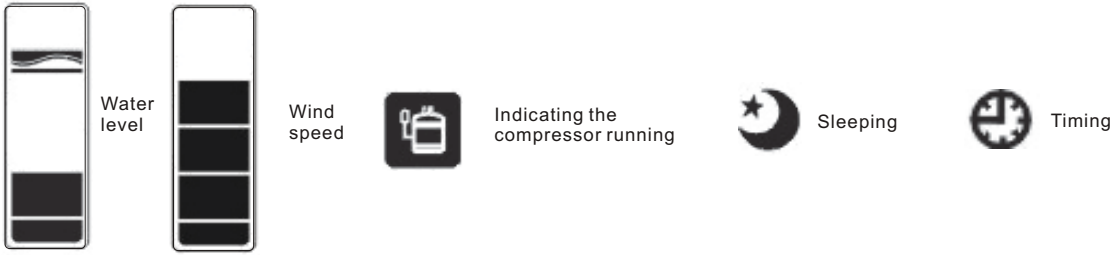
1) Operating modes:



2) Operating states of the unit:



3) Operating states of equipment:



When it turns on, it means defrosting function.

Number

When it turns on, it means that the corresponding compressor is defrosting;
When it flashes, it means the forced-defrost order is received.



When it turns on, it means that the electric heating is operating;
When it flashes, it means the unit is carrying on preheating operation

4) Buttons state:



Buttons locked



Invalid button

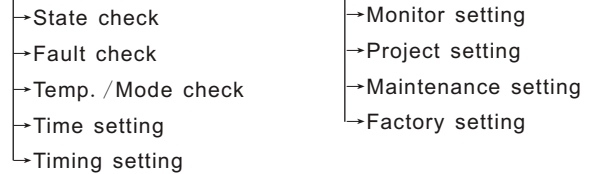
Interface display and its operation instruction

■ User operation instruction

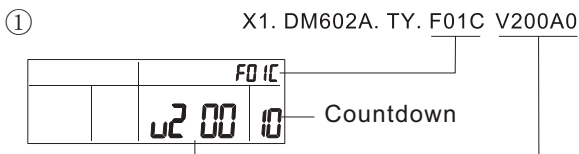
Before boot-strap, please check whether all wire connections are OK.

1. Summary:

Electrifying→Boot-strap interface → Operation main interface

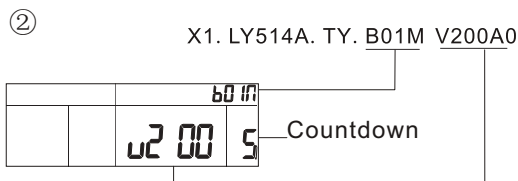


2. Boot-strap interface:



The boot screen displays the software function codes and vision No. of DM602A within the first five seconds.

F01: Function code(such as DM602A.TY.F01C)
V200: Vision NO.(such as V200), displaying 3s and A0, displaying 2s;



The boot screen displays the software function codes and vision No. of DM602A within the latter five seconds.

B01: Function code(such as LY514A.TY.B01C)
V200: Vision NO.(such as V200), displaying 3s and A0, displaying 2s;

Remarks: The function codes and vision No. Above are just fore reference.

3. Main operation interface

Press RESET key or countdown, the system will enter to the main operation interface:



The preheating operation will be started after electrifying as if the preheating time is not zero. During preheating operation, the unit can not be started until the operation is over.

If flashes, it means preheating operation and the operation can be cancelled by pressing down at the same time;
If turns on, it means that the auxiliary electric heating is effective and can be started.

means all buttons on the panel are locked;

means the button is invalid.

Press and simultaneously to switch LOCK/UNLOCK operation

Means defrost state of modules

+ : The current module will carry on forced-defrost operation.

System module and status



Equipment states: No. 1 Compressor runs
No. 1 Compressor is defrosting
No. 1 Electric heater runs

means timing operation and it will be started or shut down by pressing .

means module code and 00 is the default value and the number will change by pressing .

Flashes for fault display and the system will enter to the fault check interface by pressing .

The heat recovery temperature is indicated only when the heat recovery function is started up

The system inlet water temperature or outlet water temperature is indicated for I. T setting or O. T setting.

If icon is indicated, it means sensor fault or the measuring value is out of the setting value.

4. State check

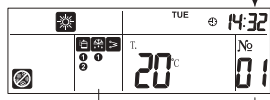


Module No. : 00~15
SRI addresses: 0~F

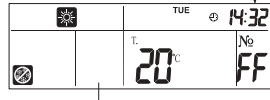
Operation main interface



State of No. 00 module



State of No. 01 module



FF without any information

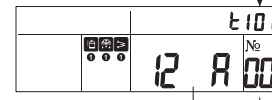
The switch of module No. Is in the range of setting value

FF means system information

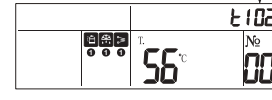
State check interface



xx% means the opening of electric expansion valve



XxA means the compressor current



State code:
T0xx: System state
Tnxx: No. n compressor state (n=1, 2, 3, 4)
T9xx: The current module state

Press or to switch the check of T0xx, Tnxx and T9xx

● Press to return to the main interface

● If no button is pressed within 180s, the system will return to the main interface automatically.

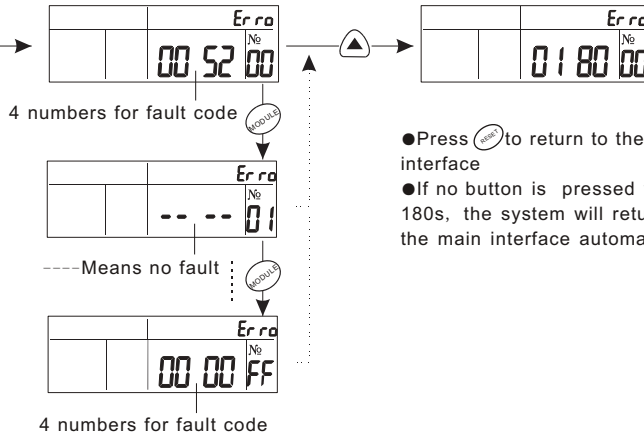
5. Fault check

Operation main interface



Module No. : 00~15
 SRI addresses: 0~F
 The interface displays the No. xx module fault
 The switch of module No. is in the range of setting value

FF means system information



Press Δ or ∇ to switch the check of T0xx, Tnxx and T9xx

- Press ENTER to return to the main interface
- If no button is pressed within 180s, the system will return to the main interface automatically.

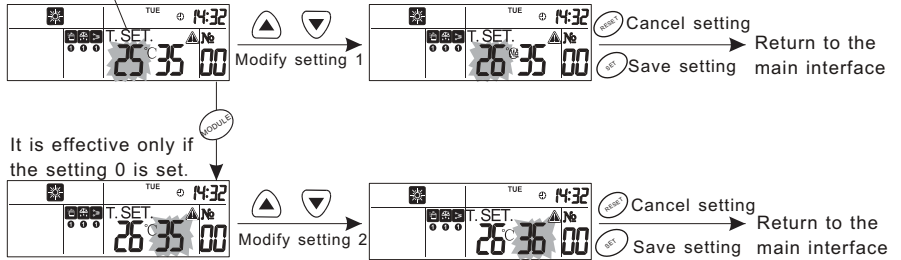
6. TEMP. /MODE setting

Operation main interface

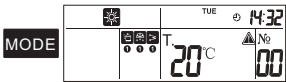


- If no button is pressed within 180s, the system will return to the main interface automatically.

T. SET. Means setting temperature and it means the current temperature when flashing.



Operation main interface

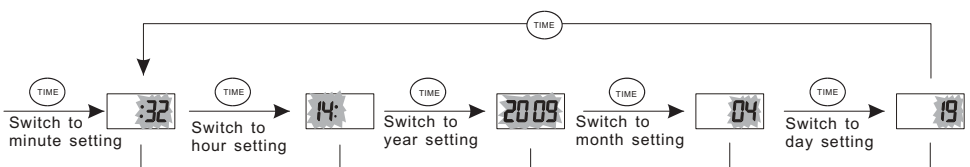
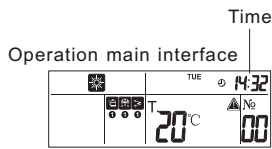


It means the current code when flashing

- If no button is pressed within 180s, the system will return to the main interface automatically.



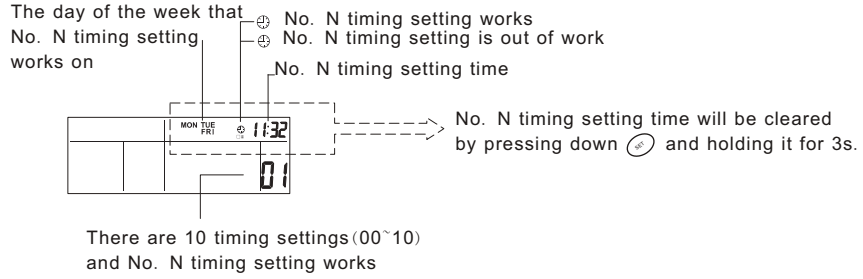
7. Current time setting



- If no button is pressed within 180s, the system will return to the main interface automatically.

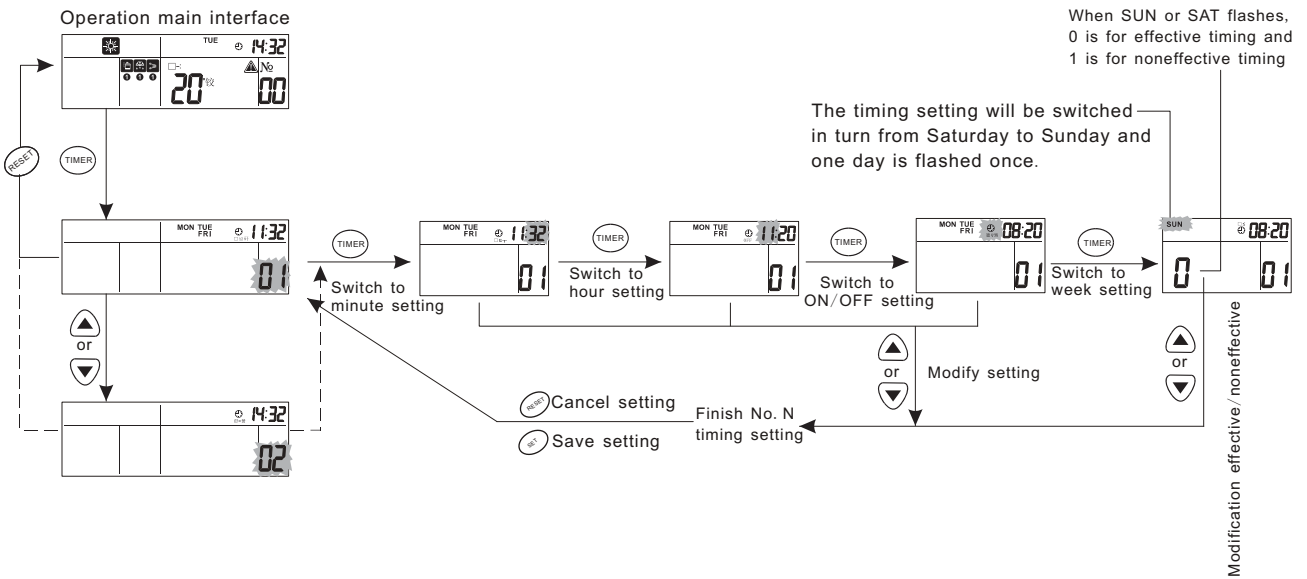


8. Timing time setting



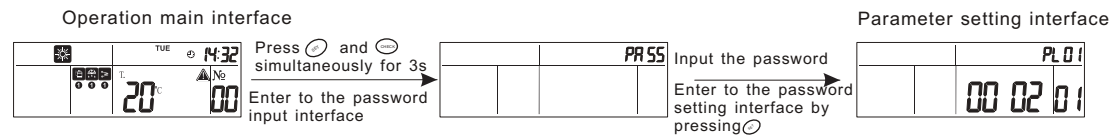
Remarks:

There are 10 timing settings (00~10), each setting can be set separately at the any time and it is noneffective if the time is set for 00:00 or in the time from Saturday to Sunday.
 The settings don't change for starting or shutting down timing operation.



9. Parameter setting

⚠ Please press [SET] to enter the parameter setting interface after inputting the password and keep the password right!



- Parameter initializing: Please follow the steps below to carry on parameter initializing operation

