# 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. 5mm$^2$) ,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. 5mm$^2$) ,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

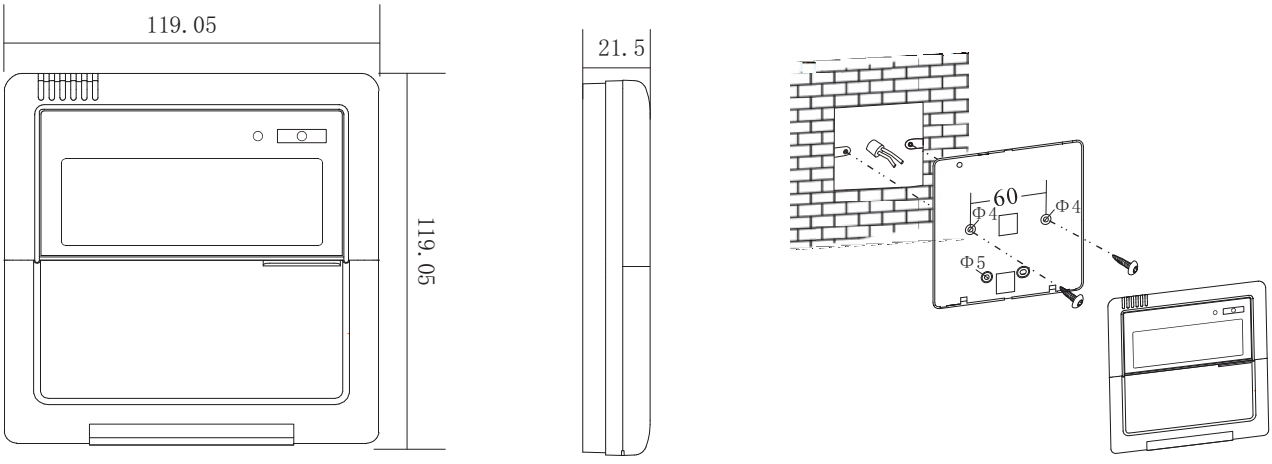
Product serial number: OW041622-090402-0251420

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

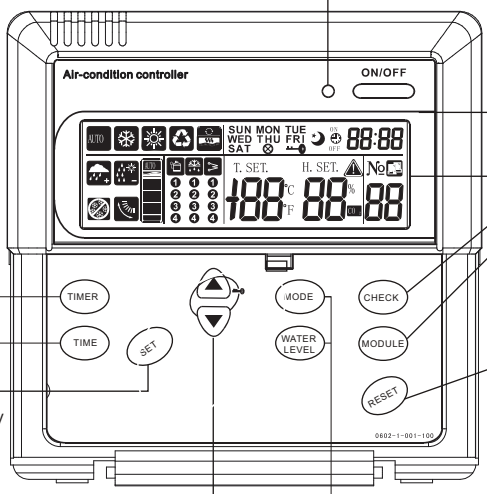
Version number of Delivery software (Unit code): V200A0 (I. DM602A. 001)

## Monitor introduction

### ■ DM602A Monitor installation and its dimension: unit mm



## ■ Panel Introduction




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

● 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.

ON/OFF button: It will carry on STOP operation if it is pressed during anti-freezing operation.

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;

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;

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 noalarming case.
● The modification can not be saved by pressingit for returning operation

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;

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

1) : All keys will be locked/unlocked;

2) SET + RESET : Preheating operation will be cancelled;

3) Press down and hold TIMER for 3s: Timing function will be set;

4) SET + MODULE : The current module will carry on forced-defrost operation ;

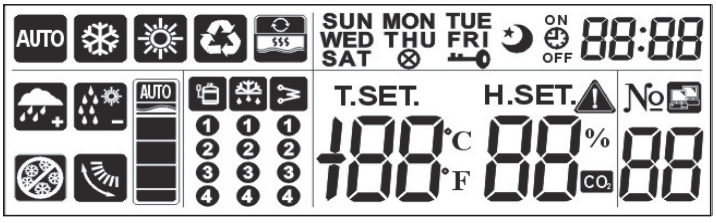
5) Press down and hold SET and CHECK for 3s: The system will enter to the interface for factory setting;

6) SET + CHECK : The system will enter to the interface for maintenance setting;

7) Press down and hold SET for 3s: The system will enter to the interface for project setting;

8) Press down and hold CHECK for 3s: The system will enter to the interface for monitor setting;

2. Display section:



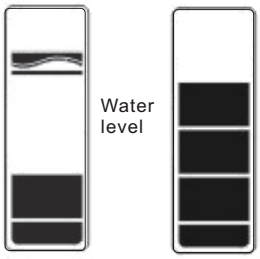

1) Operating modes:

AUTO AUTO COOL HEAT FAN Heat recovery Hot water

2) Operating states of the unit:

HUMI DRY ANTI-FR FAULT Module number SWING

3) Operating states of equipment:


Water level


Wind speed

Indicating the compressor running

Sleeping

Timing

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.

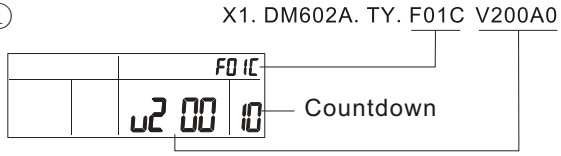
1. Summary:

Electrifying→Boot-strap interface → Operation main interface

- →State check
- →Fault check
- →Temp. /Mode check
- →Time setting
- →Timing setting
- →Monitor setting
- →Project setting
- →Maintenance setting
- →Factory setting

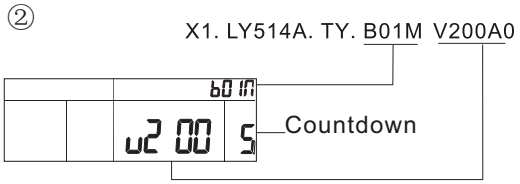
2. Boot-strap interface:

①




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;

②




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 andthe 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 ❶~❹ modules

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

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

System module and status

№ means module code and 00 is the default value and the number will change by pressing MODULE.

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

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

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

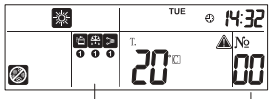
The system inlet water temperature or outlet water temperature is indicated for I. T setting or O. T setting.

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

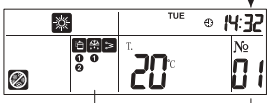
Operation main interface



State of No. 00 module

MODULE

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



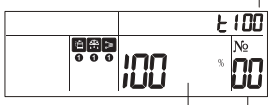
State of No. 01 module

MODULE

FF means system information

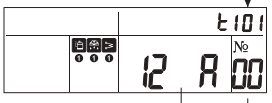
FF without any information

State check interface



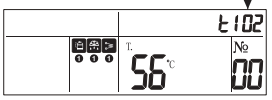
State code:
T0xx: System state
Tnxx: No. n compressor state (n=1, 2, 3, 4)
T9xx: The current module state

xx% means the opening of electric expansion valve ▲



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

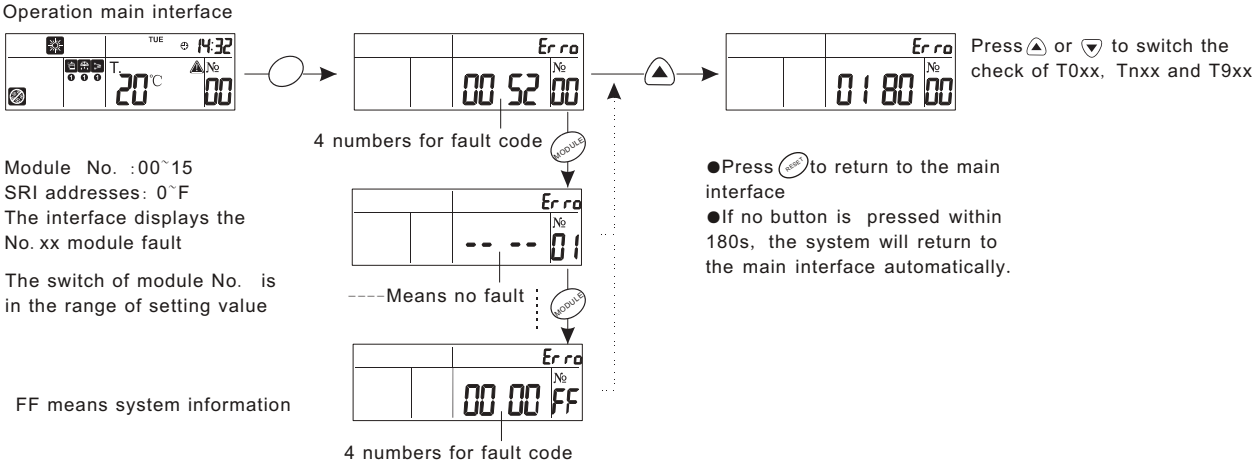
XxA means the compressor current ▲



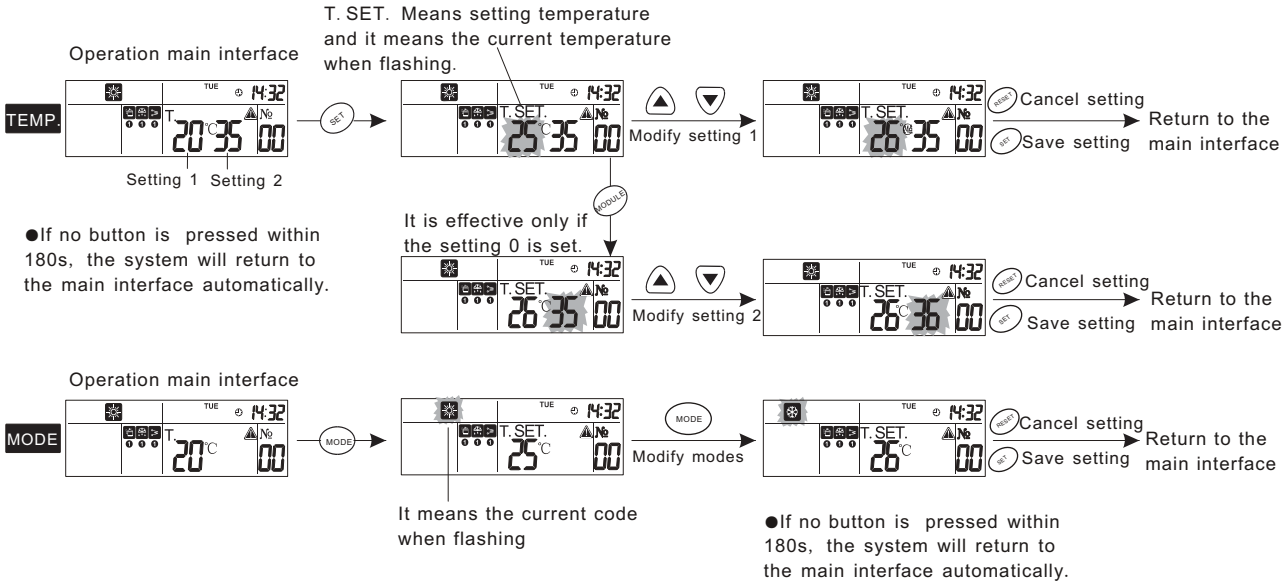
● Press RESET to return to the main interface

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

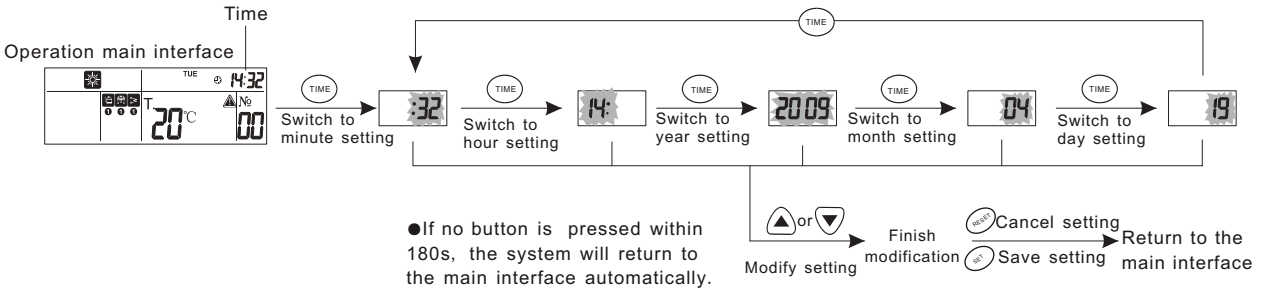
## 5. Fault check



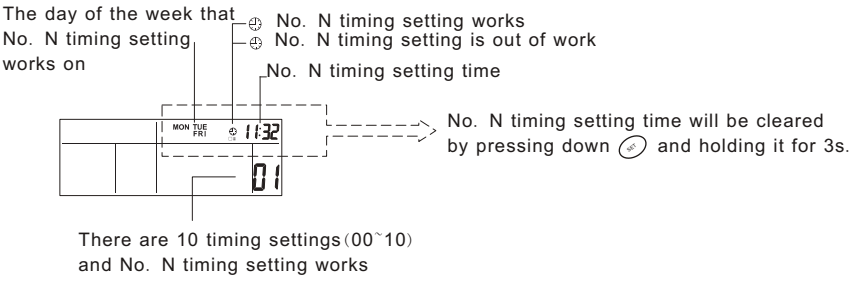

## 6. TEMP. /MODE setting




## 7. Current time setting



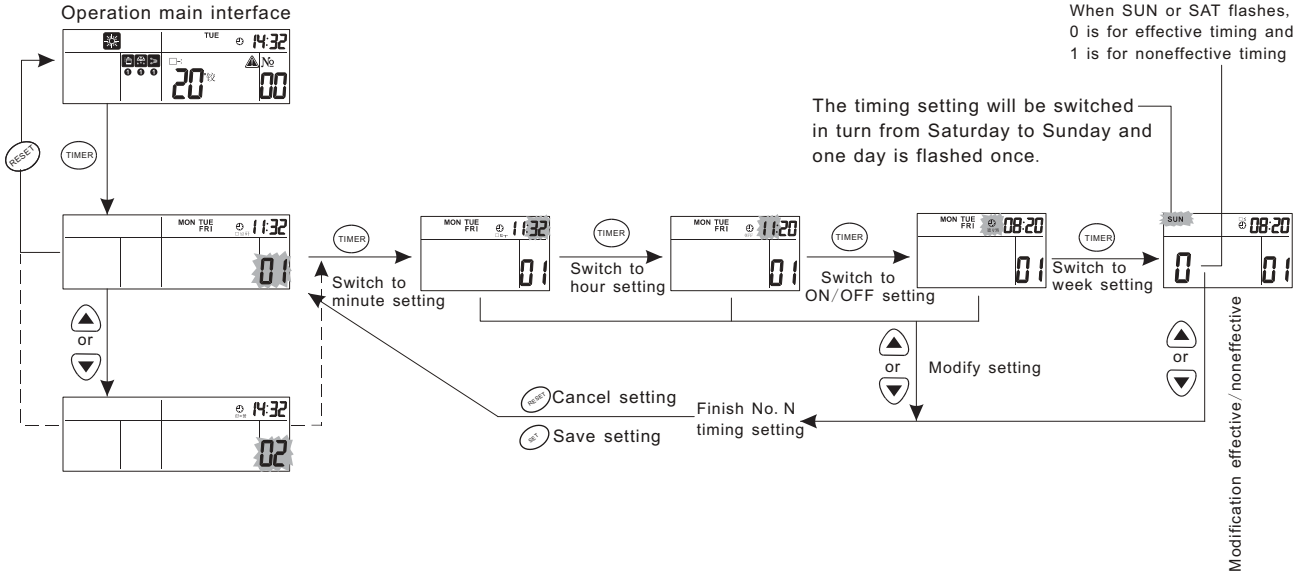
8. Timing time setting




Remarks:

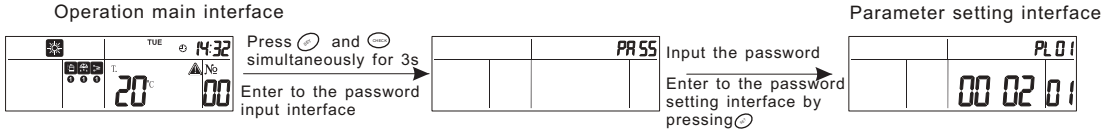
There are 10 timing settings(00~10), each setting can be set separately at the any time and it is noneffective if the time is setfor 00:00 or in the time from Saturday to Sunday.

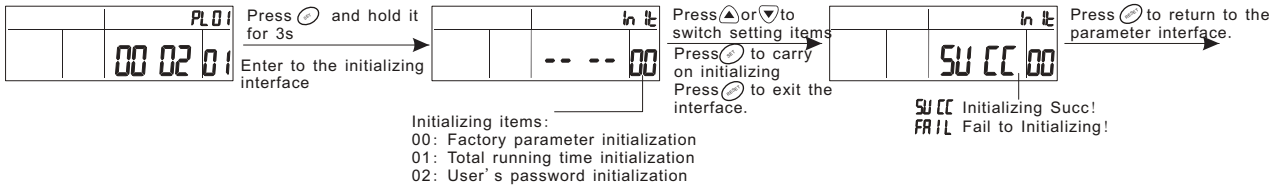
The settings don't change for starting or shutting down timing operation.




9. Parameter setting

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




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