

Instruction Manual of Multifunctional Tester for Inverter Air Conditioner

Specification

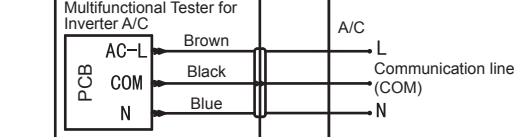
Product name	Tester for Inverter Air Conditioner
Product code	TL118002700
Product model	GT2A3Ac
Rated voltage	220-240V~

Buttons

- 1.OK button: enter the selected function;
- 2.Next button: select a function or turn to another page;
- 3.Home button: return or back to the home page;

Functions

(I). Wiring instruction



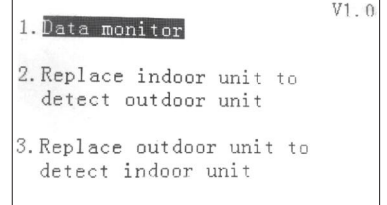
Note:
a. The communication line (COM) should be connected to the communication terminal of either the indoor unit or the outdoor unit.

Thank you for choosing our product.
Please read this Owner's Manual carefully before operation and retain it for future reference.

b. Please connect power only after the wires are properly connected. The neutral wire and live wire must not be reversed. Terminal COM of the tester must be securely connected to the AC; otherwise, data cannot be detected and E6 will be displayed. (E6: indoor and outdoor units communication failure)

(II). Operation instruction

1. When the tester is powered on, it will display as follows:



Note: Pressing the next button can switch to a different function.

2. The function of data monitoring:
After the function of data monitoring is selected, if the indoor or outdoor unit is not faulted or under protection, only operational data will be displayed; otherwise, a fault or protection code or maintenance guide will be shown. The last page will display the operational data. Press the

next button to view the fault, protection condition and operational data.
If the air conditioner is not faulted, the tester will display the air conditioner's operational data, as shown below:

• Run mode:	Cool
• Compressor frequency:	0Hz
• Expansion valve:	150Step
• Module temp.:	45℃
• Outdoor ambient temp.:	25℃
• Discharge temp.:	89℃
• External tube temp.:	25℃
• DC bus voltage:	308V
	End

Note: If the data page shows "--", it means the tester cannot collect data from this model.

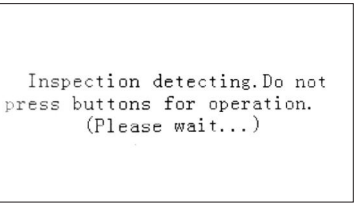
3. Replace the indoor unit to test the functions of outdoor unit:

If the outdoor unit is not faulted or under protection, only operational data will be displayed; otherwise, a fault or protection code or maintenance guide will be shown. The last page will display the operational data. If the outdoor unit can start up normally, then its compressor will stop

after running for a maximum of 3min. Press the next button to view the fault, protection condition and operational data of the outdoor unit.

4. Replace the outdoor unit to test the functions of indoor unit:

a. It takes 90s for the tester to connect to the indoor unit and completing the testing. If the indoor unit reports E6 in 90s, it is normal. The tester will report a fault after 90s, as shown below:



• Run mode:	Cool
• Indoor fan speed:	High
• Set temp.:	19℃
• Indoor ambient temp.:	26℃
• Inner tube temp.:	24℃

黑色线框为产品裁切线不印刷

红色虚线处为压痕线不印刷

A面

红色虚线处为压痕线不印刷

黑色线框为产品裁切线不印刷

b. If the indoor unit is faulted or under protection, a fault or protection code or maintenance guide will be shown. The last page will display the operational data. Press the next button to view the fault, protection condition and operational data of the indoor unit.

Note:

(1) After the tester works in replacement of the indoor or outdoor unit, make sure the communication line of the indoor and outdoor units is cut off. Then test the indoor or outdoor unit. Otherwise, the tester will display "Please disconnect the communication line of the indoor and outdoor units".

(2) If the tester replaces the indoor unit to test the outdoor unit, it will sense the outdoor ambient temperature after it is energized. If the outdoor temperature is above 20 °C, the unit will enter cooling mode. If the outdoor temperature is below 20 °C, the unit will run in heating mode.

(III).Judgement of temperature sensors

Model	Temperature	Reference resistance(KΩ)	Take 5V as reference voltage(V)
15K(Ambient temperature)	22°C	17.14	2.33
	23°C	16.39	2.39
	24°C	15.68	2.44
	25°C	15.00	2.50
	26°C	14.36	2.55
20K(Tube temperature)	27°C	13.74	2.61
	28°C	13.16	2.66
	22°C	22.85	2.33
	23°C	21.85	2.39
	24°C	20.90	2.44
	25°C	20.00	2.50
	26°C	19.14	2.55
27°C	18.32	2.61	
28°C	17.55	2.66	

Connect to the Air Conditioner

1.Power supply instruction:

Tester power supply interface

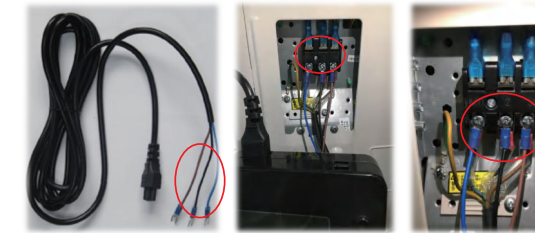
This is to connect the air conditioner. Mind the live wire (brown), communication wire (black) and neutral wire (blue).



2. Wiring procedure:

Connect the wiring terminal of power cord to wiring terminal of air conditioner, see the figure as below. Please note that the neutral wire (blue), live wire (brown) and communication wire (black) cannot be connected reversely.

The wiring diagram as below is only for reference.



WARNING

1. Do not use in severe weather such as thunderstorm. Guard against damp and keep dry.
2. Please connect power only after the wires are properly connected. The neutral wire and live wire must not be reversed.



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