

MH13 parameters

The output voltage	Measuring range	Precision	Short circuit current
250V	1MΩ-10GΩ	± (5%+10d)	1.8mA
500V/1000V	2MΩ-20GΩ	± (5%+10d)	
2000V/2500V	5MΩ-40GΩ	± (5%+10d)	
AC voltage	10-600V	± (1%+5d)	
DC voltage	10-600V	± (0.8%+5d)	
Resistance range	1MΩ-200GΩ	100 sets of data storage	✓
Max count	2000count	HD backlit screen	✓
Use battery	AA5 battery*8	Absorption ratio	✓
Material	Silica gel/ABS	Polarization Index	✓
Weight	640g	Autorangeing	✓
Pen material	PVC/brass	Automatic discharge	✓
Overall length of test leads	108cm	Test voltage display	✓
Back support	✓	High pressure indication	✓
Low voltage indication	✓	Measurement time display	✓

The above parameters are for reference only, the actual measurement of the specific equipment shall prevail!

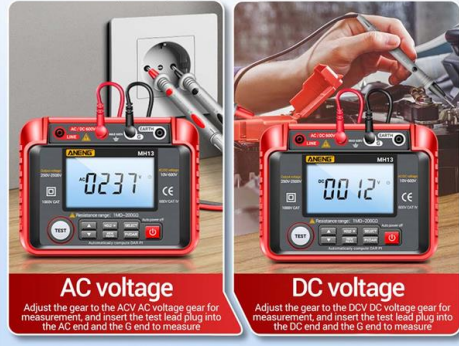
Product accessories

- ①.Packaging box ②.Insulation resistance tester
- ③.Alligator clip ④.Storage bag ⑤.Instruction manual ⑥.Test lead ⑦.Signal shielding wire



AC/DC voltage

In the standby interface, short press the **SELECT** button to enter the AC voltage function and press it again to switch to the DC voltage function



Polarization Index PI

The power system is required to be measured in the insulation test of the main transformer, motor, etc., and this data can be used to judge the pros and cons of the insulation condition, quality and aging problems

PI (Polarization Index)	10 minutes insulation resistance / 1 minute insulation resistance
Judgement standard	≥4 4~2 2.0~1.0 ≤1.0
	Most Good Warn Bad



Next, we calculate the measured resistance value according to the following formula:
 Insulation resistance test for 10 minutes = polarization index 4.36GΩ ÷ 4.59GΩ = 0.9498...
 Test insulation resistance value for 1 minute

The obtained value is about 0.94 and less than 1.0, it can be judged that the device is at a disadvantage and the aging problem is serious

Absorption ratio DAR

To determine whether the equipment is affected by moisture, the insulation resistance value of 15 seconds and 1 minute is used for the measurement of insulation resistance

DAR(Absorption ratio)	1 minute insulation resistance / 15 seconds insulation resistance
Judgement standard	≥1.4 1.25~1.0 ≤1.0
	Most good good



Next, we calculate the measured resistance value according to the following formula:
 Test insulation resistance value for 1 minute = absorption ratio DAR 2.03GΩ ÷ 1.99GΩ = 1.02...
 Test insulation resistance value for 15 seconds

If the value obtained is about 1.02 and less than 1.0, it can be judged that the device does not affect the insulation resistance value due to moisture and can be used normally



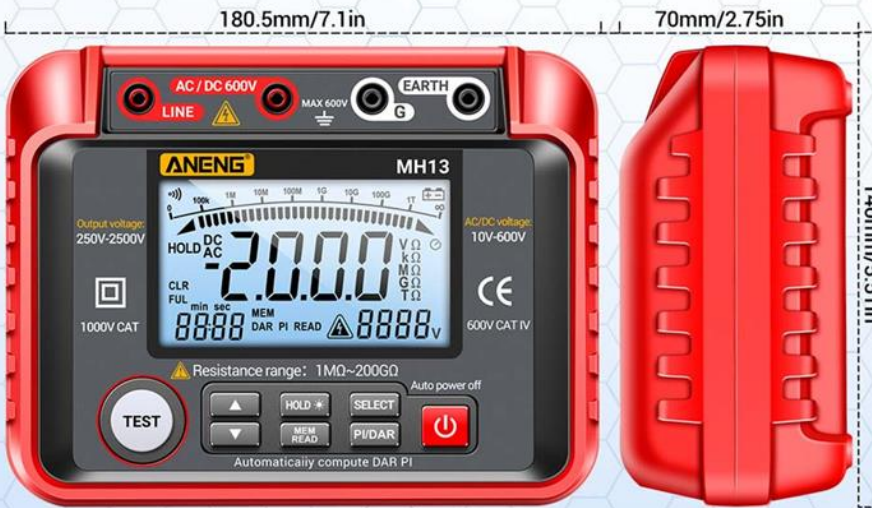
Install alligator clips

Align the test pen with the crocodile, put it into the screw bayonet, and tighten the test pen clockwise.



Signal shield wire

Can eliminate the error caused by leakage, equivalent to the ground wire to reduce interference



TEST Test the discharge button

Note: After the red light is on when the measurement key is pressed, do not touch the ground resistance under test and the metal parts of the ground pin test clip!

Power Press and hold for 2 seconds to power on/off

Up Up range / page up

Down Decrease range/ page down

HOLD Single press: data hold Long press: backlit screen

MEM READ Data storage

SELECT Function switch button

PI/DAR Absorption ratio DAR, polarization index PI

100 sets of data storage

