ANENG AN113D Electrical Digital Professional Multimeter

- Excel Form (XEFS)
- Word Form (DOCX)
- 2.0" Display LCD TFT Screen
- AC Voltage: 600mV/6V/60V/600V/750V
- Ohmic Type Digital Meter
- DC Voltage: 600mV/6V/60V/600V/1000V
- AC Current: 60mA/600mA/10A
- Resistance Measuring Range: 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ
- Certification: RoHS
- DC Current: 60mA/600mA/10A
- Personal Transformer
- Capacitance: 60nF/600nF/6μF/60μF/600μF/6mF/60mF
- Operating Mode: Non-Contact
- Display Number: 2000(4.0D)-6000(5.0D)
- Measuring Resistance Range: 0.1Ω-20MΩ
- Dimensions: 120*60*33mm
- Operating Temperature:0 ~ 40℃
- Storage Temperature: -10~50℃
- Diode: Yes
- Continuity: Yes
- Automatic Range: Yes
- Hand Posture: Yes
- Non-contact Detection: Yes
- Zero Fire Line: Yes
- AC/DC Voltage: Yes
- Backlight: Yes
- Protection Function: Yes

DESCRIPTION

This product is a multi-function, easy-to-replace digital multimeter with a 600V current 10A display.

1. Measurement Function Include AC/DC voltage, AC/DC current, resistance, diode test,capacitance, NCV, frequency,duty cycle, capacitance.

2. Support Fuse: 10A(

3. Support Auto Power Off

4. Support Backlight Function

5. Support Data Hold

Features

Product:DC 2000 counts

Range:Auto

Material: ABS+PTC

Variable Mode: 2 Group / second

Low Battery Indication:√

Specifications

DC Voltage: 0.000V-20.00V(±0.5%) 600.0V-1000.0V(±0.7%) 2000V (±0.5%+5)

DC Voltage: 60.00mV (0.01mV) 600mV (0.1mV) ±(0.8%+5)

AC Voltage: 0.000V-20.00V(±1.0%) 60.00V-600.0V(±1.2%) 750V (1%) ±(1.2%+5)

AC Voltage: 60.00mV (0.01mV) 600.0mV (0.1mV) ±(1.2%+5)

DC Current: 0.000A-20.00A(±1.5%) 10A(±1.5%)

DC Current: 60.00mA-(0.01mA)600.0mA (0.1mA)

AC Current: 0.000A-20.00A(±1.5%) 10A(±1.5%)

AC Current: 60.00mA-(0.01mA)600.0mA (0.1mA) ±(1.5%+5)

Resistance: 600.0Ω-(0.1Ω)6.000kΩ-(0.001Ω)60.00kΩ-(0.01kΩ)-600.0kΩ(0.1kΩ)-6.000MΩ (0.001MΩ)-60.0MΩ(0.0MΩ)±(2.0%Ω)-±(5%Ω)

Capacitance: 60.00nF(0.01nF)-600.0nF(0.1nF)-6.000μF(0.001μF)-60.00μF(0.01μF)-600.0μF(0.1μF)-6.000mF (0.001μF)-60.00μF(0.01μF)-600.0μF (0.1μF)±(4.0%+5) 6.000mF (0.001mF) ±(5.0%+5)

Frequency: 50.00Hz-(0.01Hz)-999.9Hz-(0.1Hz)-9.999kHz (0.001Hz)-99.99kHz (0.01Hz)-999.9kHz (0.1Hz)-9.999MHz (0.001Hz)-99.99MHz (0.01Hz)

Duty Cycle:1%-99% 0.1% ±(2.1%+5)

Temperature:-20~1000℃ 1℃ ±(3.0%+5)

Diode:1V-1.400V 0.1V ±(5)

Diode

Continuity: √

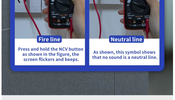
Resistance:

1 Multimeter

1 Pair of test leads

1 Thermocouple

1 English user manual



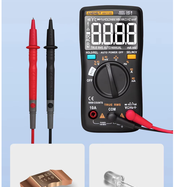
Smaller and lighter Easy to carry

Comfortable and smooth lines, practical ergonomics make measurement simpler

Diversified measurement

Diversified

Measure a wide range of electronic components to meet your multi-function needs



Temperature measurement

Turn the turntable to the corresponding gear position and place the temperature line in the measurement object

Product parameters

Information

Brand: ANENG Model: AN113D Net weight: 144g

Material: ABS Battery AAA*2 Colour: Black

Accessories: multimeter / test pen / temperature line / manual / storage bag

Size: 130.6mm*65.4mm*28.9mm/5.14in*2.57in*1.13in

Measurement instructions

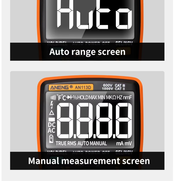
Precautions

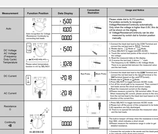
Resistance <50Ω: The meter will automatically judge the continuity detection

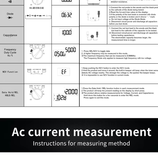
Voltage <0.8V: The meter will not measure because the voltage is too low.

① Measuring temperature requires manual shifting

② Capacitance measurement requires manual shift



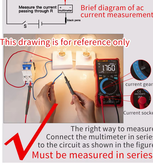




Measurement	Function Position	Data Display	Operation Instructions	Usage and Notes
NCV		0.00 0000	Hold the button for 2 seconds to enter the NCV mode.	Hold the button for 2 seconds to enter the NCV mode. When the sensitivity is adjusted to the maximum, the sensitivity is 1.5 times the sensitivity of the AC voltage 100V. When the sensitivity is adjusted to the minimum, the sensitivity is 1.5 times the sensitivity of the AC voltage 1000V.
DC Voltage Low Voltage Detection	Rotate the knob to the DC voltage low voltage detection gear.	0.00 0000		Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the DC voltage low voltage detection gear. When the DC voltage is less than 0.8V, the meter will not measure and will display "0.00". When the DC voltage is greater than 0.8V, the meter will automatically switch to the DC voltage gear.
DC Voltage	Rotate the knob to the DC voltage gear. Press the button to switch to the manual gear.	0.00 0.00		Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the DC voltage gear. Press the button to switch to the manual gear.
AC Voltage		0.00 0.00	Short Press	Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the AC voltage gear. Short press the button to switch to the manual gear. Long press the button for 2 seconds to enter the low pass filter function. Short press the button to exit the low pass filter function.
Resistance		0.00 0000		Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the resistance gear. Short press the button to switch to the manual gear.
Continuity Test		0000		Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the continuity test gear. When the resistance is less than 50Ω, the buzzer will sound.
Diode		0.00		Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the diode gear. Short press the button to switch to the manual gear.
Capacitance		0000		Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the capacitance gear. Short press the button to switch to the manual gear. Long press the button for 2 seconds to enter the low pass filter function. Short press the button to exit the low pass filter function.
Frequency Duty Cycle		0.00 0.00		Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the frequency duty cycle gear. Short press the button to switch to the manual gear.
NCV Position		EF		Hold pressing the NCV button to enter the NCV mode. When the sensitivity is adjusted to the maximum, the sensitivity is 1.5 times the sensitivity of the AC voltage 100V. When the sensitivity is adjusted to the minimum, the sensitivity is 1.5 times the sensitivity of the AC voltage 1000V.
Temp. Test (NTC 10K-40~100℃)		0000 0.00		Connect the black test pen to the COM port and the red test pen to the VΩ port. Rotate the knob to the temperature gear. Short press the button to switch to the manual gear. Connect the temperature line to the temperature measurement object. Wait for the temperature to stabilize. The measurement range is -40~100℃.

Ac current measurement

Instructions for measuring method



The right way to measure
Connect the multimeter in series to the circuit as shown in the figure
Must be measured in series!

Millivolt value jump

Correct phenomenon

① Millivolt range display:

Millivolt value jump Belong to normal phenomenon!!!

② Display when the meter is crossed:

Short connect the red and black watch pen

The mV file of multimeter shows non-zero phenomenon,mainly including the following situations:

1. Excessive changes in ambient temperature and humidity in the air lead to non-return to zero;
2. Strong electric field or magnetic field interference.

When the multimeter does not return to zero, it can be judged as follows: the multimeter is dialed to the mV file, the corresponding input hole is inserted into the red and black pen line, and the red and black pen line is shorted. At this time, the multimeter displays "0000" to judge the multimeter. The phenomenon of zero return is due to interference from environmental factors. The non-return to zero in this state does not affect the use of the multimeter. However, it is recommended to eliminate environmental interference factors so as not to affect the measurement accuracy and produce erroneous measurement results.