ANENG®

INSTRUCTION MANUAL

VOLTAGE TESTER PEN



DIGITAL DISPLAY VOLTAGE TESTER

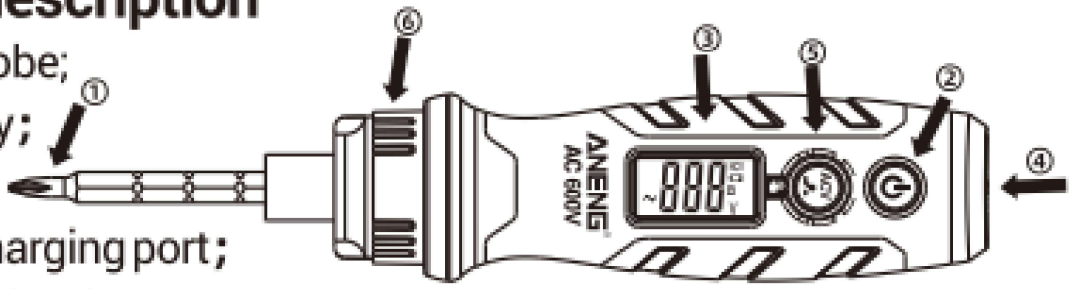
English Guide

This voltage tester is designed and produced in accordancewith the safety requirements of the international electrical safetystandard IEC 61010 for electronic measuring instruments andhandheld digital multimeters. CAT IV 600V and CAT III 1000Vin accordance with IEC61010 and pollution level 2 requirements.Before using this instrument, please carefully read the usermanual and pay attention to the relevant safety work guidelines.

- If the test pen is used near equipment with high electromagnetic interference, the measure results may produce significant errors.
- Do not use the slsctric pen when its appearance is damaged.
- Extreme caution must be exercised when working around exposed conductors or buses.
- Do not use this pen near explosive gases, vapors, or dust.
- When the measured voltage exceeds the effective value of 60Vdc or 30Vac, please operate with caution to prevent electric shock.
- When using an electric tester, do not touch the metal parts of the screwdriver head with your hands to avoid electric shock and personal injury.

1. Panel description

①.Detect probe;
②.Power key;
③.LCD;
④.Type-C charging port;
⑤.Touch/Select key;
⑥.Knob



1.1 Detect probe ①

During contact measurement. When touching metal parts of charged bodies with a batch head, the human body should not come into contact with the batch head metal parts during operation.

1.2 Power key ②

Long press Power key ② for more than 2 seconds to power on/off tester.

1.3 LCD③

Display measurement data, built-in dual-color screen display, with RED indicating high voltage and GREEN indicating low voltage.

1.4 Type-C charging port④:

For Type-C charging. If not used for a long time, it is necessary to regularly charge this electric pen to avoid damage such as battery swelling and inability to charge due to complete depletion of battery power.

1.5 Touch/Select key⑤:

For specific functions, see Section 3.1.When conducting contact measurement or inductive test, the human body must be in full contact with the touch key. (**Note:** Hand calluses, dry skin, skin materialization, standing on a bench, wearing insulated shoes, etc. can all reduce test performance).

1.6 Knob⑥:

There are three gear positions: L, R, and the neutral position (locked). When operating in L or R gear, the gear can quickly return to its original position using the ratchet's idle stroke, eliminating the need to release and re-grip.

2. Operation instruction

2.1 Touch/Select keyfunction

After power-on, it is in Non-Contact Voltage test mode by default. Press and hold the **Touch/Select key** to shift to digital contact voltage measurement mode; if the screen displays a valid value (non-zero), releasing the key will automatically lock the value. If there is no valid reading when released, it will return to Non-Contact Voltage test mode. After locking, press and hold the **Touch/Select key** again to re-enter digital contact voltage measurement mode.

2.2 Non-Contact Voltage (NCV) test

After power-on, it is in Non-Contact Voltage test mode by default, and the LCD displaying EF. Hold the pen body with one hand and ensure sufficient contact between the human body and Touch/Select key (without

pressing it). Use the probe to sense any potentially charged objects. If the conductor is charged and the AC electric field intensity around the charged conductor is strong enough for the electrical pen to recognize, the LCD will show the corresponding induced voltage intensity and color based on the strength of the electric field, and the internal buzzer will sound an alarm.

2.3 Contact measurement & Continuity test

After power-on, it is in Non-Contact Voltage test mode by default. By manually pressing and holding the **Touch/Select key,** it switches to the digital contact voltage measurement & Continuity test, with the screen displaying "OL".

A) Digital voltage measurement : Press the **Touch/Select key** with bare hands and use a screwdriver to touch a potentially charged object. If the object is charged and the voltage is >3V AC, the LCD will show the corresponding touch voltage value and color based on the voltage level, and the internal buzzer will sound. Releasing the button, it will locks the current value for easy reading.

B) Continuity test : Press the **Touch/Select key** with one hand, and with the other hand, make full contact with one end of the non-conductive wire.Use the probe of the electrical tester to touch the exposed end of the wire. If the wire is connected, the electrical tester will display 0 and the buzzer will sound.

2.4 Energy saving automatic shutdown

After the tester is turned on for about 5 minutes without any operation, the tester will automatically shut down.

2.5 Low battery indication

When the tester is in use and " " is displayed on the LCD, it indicates that the battery is insufficient to drive the tester, and the battery needs to be charged.

Note: To protect the battery and extend the lifespan of the charging function, it is recommended to use the charging cable provided with this product or avoid using a fast-charging cable. Steps for battery

replacement: Press the battery cover safety button with your fingers, open the battery cover, and follow the instructions to insert one 14500 size 3.7V battery or charged. **Note:** The positive and negative directions of the battery cannot be reversed, otherwise it will damage the tester.

3. Technical specification

AC voltage range	NCV: non-contact 30~1000V
	Digital: contact 3V~600V
Detected frequency	50/60Hz
Alarm mode	with back-light color and buzzer sound
Zero line & Live line judgment	According to detected signal strength line determination to determine it is zero or live wires.
NCV signal strength	NCV detected signal strength (-:weak,--:middle,---:strong)
Operation temperature	0~40°C
Storage temperature	10~50°C
Altitude	Less than 2000 meter
Safety grade	CE CAT .II 1000V/CAT III 600V
Power supply	one 14500 3.7V battery
Charger specifications	5V/2A Type-C

The parameters in this manual are subject to change without prior notice; Our company does not assume responsibility for accidents and hazards caused by user errors.