

Contact -type digital voltage detector NT-320

User manual

Warning

Please read the instruction manual carefully before use and strictly observe the safety rules and the caution, attention and warnings listed in the instruction manual.

Safety Instruction

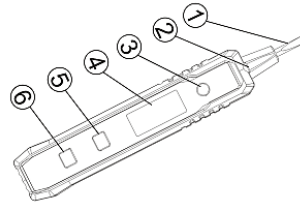
Warning

To avoid possible electric shock or personal injury:

- The protection provided by the stylus can be compromised or rendered useless if you fail to use it according to instructions.
- Before using the voltage detector, please test on a known live power supply to ensure that the detector is in good working condition.
- When using voltage detector, even if there is no indication or no sound alarm, there may be a voltage. Do not use the product if it is damaged or does not work properly. If any problem is suspected, please send it to repair in time.
- Do not apply more than the rated voltage marked on the probe.
- When testing voltages above 30 volts, be extra careful, because such a voltage will pose a risk of electric shock.
- Comply with local and national safety regulations and use appropriate protective

equipment as required by local or national authorities.

Structure



- ① Probe (sensor)
- ② Flashlight
- ③ Power/light Switch
- ④ Display
- ⑤ AC test button
- ⑥ Conduction/Positive measurement button

Operation Description

Power on/ off

Press the power/light switch ③ and keep up for more than 1 second, the buzzer deeps and the screen lit up then entered the open state.when the meter is turned on,press the power key and keep up for more than 1 second, meter turn off.

Flashlight

When the meter powered on, press the power/light switch ③ to turn on the flashlight; when the flashlight is turned on, press the “power /light” key again to turn it off.

The meter will be turned off automatically after 5 minutes when there is no induction signal and no operation.

Broken point search/Inductive Mode

Measuring

Power-on default sensing mode measurement status. When the probe of the test pen is placed close to the AC voltage source, the buzzer sounds; the frequency of the buzzer sounds has three levels, which increases with the signal. At the same time, the display screen will display “— U”, and “HI” when the signal is strong. With this function, you can find the break point of the wire.

AC Voltage Detection with Data hold

After starting up, press and hold the AC test button ⑤ to enter the AC voltage measurement mode.

When the probe of the test pen contacts the conductor with AC voltage, the display screen displays the corresponding AC voltage. Release hand the voltage data will automatically maintained. This function can detect the AC voltage and distinguish the zero and live wires according to the voltage.

Wire connected detection

After the machine is turned on, press the conduction/positive measurement button ⑥ with the right hand, hold one end of the uncharged wire with the left hand, contact the other end of the wire with the probe of the test pen, if the wire is connected normally, the display will display the “- - C” and buzzer sound, if the wire is open, the test pen does not respond.

Voltage Positive detection

After starting up, press and hold the connection/positive measurement button ⑥ of the

test pen with the right hand and the negative pole (like of the battery) with the left hand; use the probe of the test pen to touch the positive pole (like of the battery). If it is correct, the display screen will display "— P" and the buzzer will sound. If it is connected reversely, the test pen will not respond.

In general, when the backlight is red, it indicates that the object under test may be dangerous and should be operated carefully.

Warning

1: When using, please ensure that the human body is insulated to the earth, please wear well-insulated shoes; a certain part of the human body contact with an electrified object, Large areas of metal, or the Earth, will affect the accuracy of the measurement.

2: This product can only be used to measure the AC voltage ($\leq 300V$ 50/60Hz), such as other processed power supply voltage, the measurement deviation is large.

3: Due to the different structure of the socket, when the zero and live wires cannot be distinguished by the induction mode, it can be switched to the AC voltage detection mode, which can generally be distinguished according to the voltage detected by the electric pen.

4: When the induction mode is used to distinguish the zero and live wires: if the zero and live wires are very close, separate the two wires as far as possible for detection; if it is impossible to separate them, distinguish them

according to the strength of the detected signal, the one with strong signal is the live wire, and the one with weak signal is the zero wire.

5: As the detector measurement requires human contact to form a loop, please ensure that your fingers can touch the detector keys well.


6: Because the induction mode of the electric pen has high sensitivity, it can sense the weak electric field signal, so it is normal to trigger the induction when the metal detector contact the object with the weak electric field directly.

7: Do not use as a screwdriver.

Auto Power Off

After about 5 minutes without any operation and No signal detection, the voltage detector will be automatically shut down to extend the battery life.

Low Battery Indicate

When the battery voltage drops to less than 1.2 volts, the display will display "" symbol. When low battery tip, please replace the battery.

Technical Specifications

Operating voltage:

AC voltage: 12~300 V, 50/60 Hz

Measurement error: $\pm (5\%+3)$

Application environment:

Operating temperature: 0~40°C

Storage temperature: -10~50°C

Humidity: $\leq 95\%$

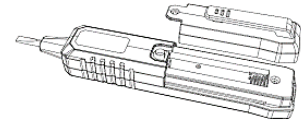
Altitude: $\leq 2000m$

Safety Compliance: CAT.II 300V

Battery: 1×1.5V AAA

Replace the Battery

Push off the battery cover as shown below, then take out the old battery, and install the new battery according to the positive and negative indications of the battery.



Warning:

To avoid electric shock, do not use a voltage probe to detect the voltage before the battery cover is fastened and locked. In order not to affect the detection, please ensure that the human body is insulated from the ground.

Clean maintenance

Clean with a wet cloth.

Notes: After cleaning, the voltage detector can't be used until it is completely dry.

Pro'sKit®

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2023002



数显智能验电笔 NT-320

使用说明书

⚠ 警告

使用前请仔细阅读使用说明书，并严格遵守安全规则和使用说明书所列的小心、注意、警告等事项。

安全须知

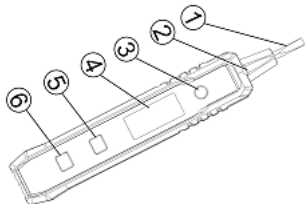
⚠ 警告

为避免可能发生的触电或人身伤害：

- 如未依照指示使用测电笔，则测电笔提供的保护功能可能会受到影响或失效。
- 如果测电笔显示屏无显示，请勿使用。
- 使用测电笔前，请在已知带电的电源上进行测试，以确保测电笔处于良好的工作状态。
- 在使用测电笔时，即使无显示或无声音报警，仍然可能会有电压存在。如果产品已经损坏，或者无法正常工作，请勿使用。如怀疑有问题，请及时送修。
- 请勿施加超过测电笔上标记的额定电压。
- 测试交流 30 伏以上的电压时，要格外小心，因为这样的电压有发生触电的危险。
- 遵守当地和国家的安全规范，依照当地

或国家主管当局的规定使用适当的保护设备。

产品结构



- ① 探针(感应头)
- ② 手电筒
- ③ 开机/照明灯按键
- ④ 显示屏
- ⑤ 接触测量按键
- ⑥ 导通/正极测量按键

操作说明

开机/关机

按下开机/照明灯按键③，并保持大于 1 秒开机，蜂鸣嘀一声，显示屏点亮，进入开机状态；在开机状态下长按开机/照明灯按键 1 秒，关机。

照明

在开机状态下，短按下开机/照明灯按键③，手电筒打开；在手电筒打开状态下，再短按开机/照明灯按键，则关闭手电筒。

无感应信号及无任何操作 5 分钟后会自动关闭。

断点寻找/感应模式测量

开机默认感应模式测量状态。

将测电笔的探针放在靠近交流电压源时，蜂鸣器响；蜂鸣器响的频率有三档，随信号增强，递增。同时显示屏会显示“—U”，信号强时显示“HI”。以此功能，可查找电线断点。

交流电压探测/数据保持

开机后，按住接触测量按键⑤，进入交流电压测量模式，测电笔的探针接触带有交流电压的导体时，显示屏幕上显示对应的交流电压，松开按键，测量数据自动保持。此功能，可检测交流电压大小，根据电压的大小区分零火线。

电线导通

开机后，右手按住测电笔导通/正极测量按键⑥，左手捏住不带电导线一端，用测电笔探针，接触导线另一端，如导线连通正常，则显示“—C”蜂鸣器响，如电线开路，测电笔无反应。

电压正极检测

开机后，右手按住测电笔导通/正极测量按

键⑥，左手负极(如电池负极)；用测电笔探针，接触正极(如电池正极)，如正确，则显示屏显示“—P”蜂鸣器响，如接反，测电笔无反应。

一般情况下，背光亮红色时，说明被测物体可能存在危险，需小心操作。

注 1：请确保人体与大地绝缘，请穿着绝缘性好的鞋子，或是站在绝缘垫上使用；如人体的某一部位接触到带电物体，或者是其他大面积的导电物体，或者是接触到大地，都会使测量结果偏大。

注 2：本产品只能用于测量市电电压，如测量其他经过处理的电源类电压，误差较大。

注 3：由于插座的结构不同，当不能通过感应模式区分零火线时候，可切换到交流电压检测模式，一般可根据电笔探测到的电压大小来区分。

注 4：当使用感应模式分辨零火线时，如果零火线靠近时，尽可能将两根线分开来检测；如实在不可分开，可根据探测到信号强弱来区分，信号强的一根是火线，信号弱的一根零线。

注 5：因电笔测量需要人体接触形成回路，所以请确保手指可以良好的接触测电笔按键。

注 6：因电笔的感应模式有极高的灵敏度，可以感应微弱的电场信号，所以在金属探测


头直接接触带有微弱电场的物体时，触发感应，属正常现象。

注 7：请不要当做螺丝刀使用。

自动关机

在约 5 分钟无感应信号或无任何操作后，测电笔会自动关机，以延长电池寿命。

欠压提示

当电池电压不足时，显示屏会显示“”符号；当出现欠压提示时，为了不影响检测，请及时更换电池。

技术参数

工作电压：交流电压 12-300V，50/60Hz

测量误差：±(5%+3)

使用环境：

工作温度：0-40 度

存储温度：-10-50 度

湿度：≤95%

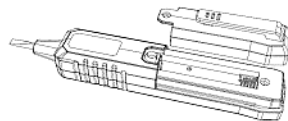
海拔高度：≤2000 米

安全等级：CAT. II 300V

电 源：1×1.5V AAA 电池

更换电池

如下图所示推开电池盖，然后取出旧电池，按电池正负指示装入新电池。



警告：

为避免电击，电池盖在扣好锁紧前不要使用测电笔进行电压探测。

为不影响检测，请确保人体和大地绝缘。

清洁

用湿布进行清洁。

注意：清洁过后要待测电笔完全干燥后才能使用。

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