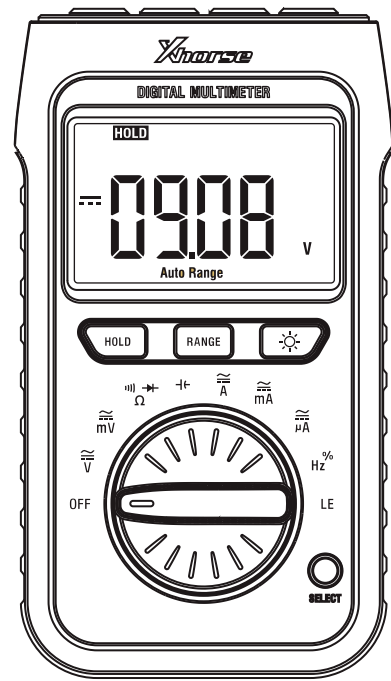
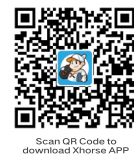




DIGITAL MULTIMETER User Manual



1. Overview

This device is a comprehensive intelligent digital multimeter that can be used to measure AC/DC voltage, AC/DC current, resistance, capacitance, frequency, duty cycle, diode, and continuity. It has functions such as automatic range, data retention, backlighting, and automatic shutdown. In addition to the traditional multimeter function, the leakage detection function is added (suitable for static leakage detection of electronic products, especially low-power products such as remotes), no need for external power supply, providing a DC 3V power supply, and quickly detecting the static leakage current value.

Warning: Before using the device, please carefully read the relevant contents of "Safety" and "Attention" in this manual and strictly abide by them.

2. Device Features

- Leakage detection, without the need for external power supply, quickly detects the static leakage current value of the remote.
- Check the battery level, automatically detect the power supply and battery level upon startup, and display a "BAT" sign on the screen interface when the battery level is low.
- Mistest protection, capable of withstanding a maximum impulse of 600V (30kVA), and equipped with overvoltage and overcurrent alarm prompts.
- 6000-word large screen LCD backlight display. The reading is clearer and it is more convenient to use in low light environments.
- Provide μA gear, suitable for small current measurement, with readings accurate to 0.1 μA .
- The overall power consumption is less than 3mA, equipped with automatic power saving function, and has a long battery life.

3. Details of unpacking inspection

After opening the packaging box, please carefully check whether the following accessories are missing or damaged:

Multimeter	1
Probe	1
User Manual	1
Warranty Certificate	1

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4. Safety precautions

- Before using the device, please read the safety precautions and follow the operating instructions. Failure to follow the relevant operating instructions may weaken or lose the protective ability provided by the device to you.
- Before use, the multimeter and probe should be checked to prevent any damage or abnormal phenomena. If it is found that the insulation of the probe and housing has been significantly damaged, and the LCD display is not displaying, or if you believe that the device is no longer functioning properly, do not continue to use it.
 - It is strictly prohibited to use the device until the back cover and battery cover are properly covered to prevent the risk of electric shock and endangering one's own safety.
 - When conducting measurements, the fingers holding the pen should not exceed the position where the pen stops, and should not touch exposed wires, connectors, unused input terminals, or the circuit being measured to prevent electric shock.
 - Before measurement, the function switch must be placed in the correct position, and shifting gears during measurement is strictly prohibited to prevent damage to the device.
 - Do not apply an AC/DC voltage greater than 600V between the device terminal and ground to prevent electric shock and damage to the device.
 - When the measured DC voltage is higher than 60V or AC voltage is higher than 30Vrms, the device should be used with caution to prevent electric shock.
 - Do not measure voltage or current above the maximum allowable input value. Before measuring the online resistance, diode, or circuit on/off, it is necessary to cut off all power sources in the circuit and start the measurement after all capacitors have been discharged, otherwise the measurement results may be inaccurate.
 - When the LCD display shows the "BAT" sign, the battery should be replaced in a timely manner to ensure measurement accuracy. When the device is not in use for a long time, the battery should be removed.
 - Please do not change the internal wiring of the device at will to avoid damaging the device and endangering safety.
 - Do not store or use this device in environments with high temperature, humidity, flammability, explosiveness, and strong electromagnetic fields.
 - For maintenance, please use a soft cloth and neutral detergent to clean the device casing. Do not use abrasives or solvents to prevent the casing from being corroded, damaging the device, and endangering safety.

5. Electrical symbol description

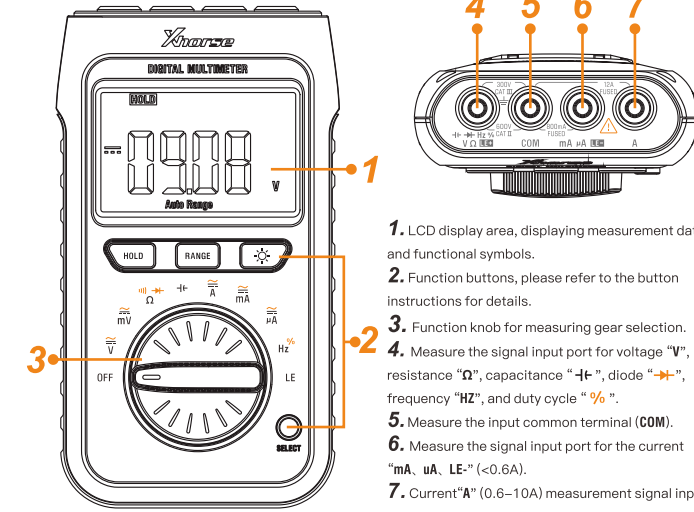
	Grounding		AC voltage or current
	Warning prompt		DC voltage or current
	High voltage warning		Leakage test power supply positive terminal
	Low battery warning		Leakage test power supply negative terminal

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6. Comprehensive characteristics

LCD display --- Maximum display up to 9999
 Polarity display --- Automatic positive and negative polarity display
 Overload display --- Displayed as "OL" or "OL!"
 Impact resistance strength --- can withstand a landing impact at a height of 1 meter
 Power supply --- 2 AA 1.5V batteries
 Dimensions --- 160 x 90 x 45.6 mm
 Weight --- About 400g (excluding batteries)
 Operating temperature and humidity --- 0 °C ~ 30 °C (not greater than 80% RH), 30 °C ~ 40 °C (not greater than 75% RH), 40 °C ~ 50 °C (not greater than 45% RH)
 Storage temperature and humidity --- 20 °C ~ 60 °C (not greater than 80% RH)
 Electromagnetic compatibility --- in a 1V/m RF field, the total accuracy specified accuracy + 5% of the range. RF fields exceeding 1V/m do not have specified indicators.

7. Appearance structure and button description



- LCD display area, displaying measurement data and functional symbols.
- Function buttons, please refer to the button instructions for details.
- Function knob for measuring gear selection.
- Measure the signal input port for voltage "V", resistance "Ω", capacitance "C", diode "D", frequency "Hz", and duty cycle "%".
- Measure the input common terminal (COM).
- Measure the signal input port for the current "mA, uA, LE-" (<0.6A).
- Current "A" (0.6-10A) measurement signal input port.

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The warranty period of the digital multimeter is one year, based on the date on the transaction voucher; if there is no transaction voucher or the transaction voucher is lost, the factory date recorded by the manufacturer shall prevail.

* Free warranty is not available in the following cases:

- Damage caused by not following the use instructions
- Damage caused by repairing or retrofitting in private
- Damage caused by fall, crash or inappropriate voltage
- Damage caused by inevitable force
- Damage caused by long-term use in harsh environments or on vehicles or ships
- Contamination and wear of the host casing caused by using

For product after-sales maintenance and technical support, please contact the dealer or scan the QR code on the back of the manual, download the official Xhorse app, and consult online customer service.

The pictures are for reference only, and the product is subject to the actual product. Xhorse reserves all rights to this manual. Without permission, any individual or organization is prohibited from copying and distributing any part of this manual in any form. Due to product improvements, the contents of this manual may change without prior notice.

Warranty card

User name:		Purchasing date:	
Contact address/Phone number:			
Repair date	Faults and causes	Maintenance persone	
Dealer:	Telephone:		



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(3) Resistance measurement

- Insert the red lead into the "VΩ" socket and the black lead into the "COM" socket.
- Switch the function knob to the "Ω" measurement position and connect the probes in parallel to both ends of the measured resistance.
- Read the test results from the display screen.

! Attention:

- If the measured resistance is open-circuited or the resistance value exceeds the maximum range of the multimeter, the display will display "OL".
- When measuring online resistance, all power sources in the tested circuit must be turned off first, and the measurement can only begin after all capacitors have discharged residual charges to ensure the accuracy of the measurement.
- If the resistance value of the probe during a short circuit is not less than 0.5 Ω, check whether the probe is loose or for other problems.
- Do not input voltage above 30V DC or AC to avoid personal injury.

(4) Diode measurement

- Insert the red lead into the "VΩ" socket and the black lead into the "COM" socket.
- Switch the function knob to the "D" measurement position, and then use the "SELECT" button to select the on/off measurement function. At this time, the screen displays "D".
- Connect the probes in parallel to the measured resistance or both terminals of the circuit. When the resistance value is less than 50 Ω, the circuit is conductive and the built-in buzzer sounds; when the measured resistance exceeds 610 Ω, the screen displays "OL".

! Attention:

- When checking the continuity of online circuits, all power sources in the tested circuit must be turned off and all capacitors must be discharged with residual charges before measurement.
- Do not input voltage higher than 30V DC or AC to avoid personal injury.

(5) Diode measurement

- Insert the red lead into the "VΩ" socket and the black lead into the "COM" socket.
- Switch the function knob to the "D" measurement position, and then use the "SELECT" button to select the diode measurement function. At this time, the screen displays "D".
- Contact the red and black probes reliably with the positive and negative terminals (or P and N poles) of the diode being tested. Directly read the approximate forward PN junction voltage of the measured diode on the display. For silicon PN junctions, the normal value is generally around 500-800mV.

! Attention:

- If the diode being tested is open-circuited or the polarity is reversed, it will display "OL".
- When measuring online diodes, all power sources in the circuit being tested must be turned off and all capacitors must be discharged with residual charges before measurement.
- Do not input voltage higher than 30V DC or AC to avoid personal injury.

(6) Capacitance measurement

- Insert the red lead into the "VΩ" socket and the black lead into the "COM" socket.
- Switch the function knob to the "C" measurement position, connect the leads in parallel to the two terminals of the measured capacitor, and read the test results from the display.

! Attention:

- If the measured capacitance is short circuited or exceeds the maximum range of the multimeter, the display will display "OL".

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9. Technical indicators

Accuracy: ±(a% of reading + b number of words), calibration period is one year.
Test conditions: 23 °C ± 5 °C, humidity less than 80% RH.

Function	Measurement Range	Maximum Resolution	Accuracy
Leakage detection	600uA/6000uA	0.1uA	1uA
	600mV	0.1mV	±(0.5%+3)
DC voltage	6V/60V/600V	0.001V	±(0.5%+3)
	600mV	0.1mV	±(0.8%+3)
AC voltage	6V/60V/600V	0.001V	±(0.8%+3)
	600uA/6000uA	0.1uA	±(0.8%+3)
DC current	60mA/600mA	0.01mA	±(0.8%+3)
	10A	0.001A	±(0.6%+3)
AC current	600uA/6000uA	0.1uA	±(1%+3)
	60mA/600mA	0.01mA	±(1%+3)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	0.1Ω	±(0.8%+3)
	Sound production below 50Ω	0.1Ω	±(1%+3)
On/off detection	Display OL above 610Ω	0.1Ω	±(1%+3)
	6nF/60nF/600nF/6uF	0.001nF	±(5%+5)
Capacitance	60uF/600uF	0.01uF	±(10%+5)
Frequency	9.999Hz/99.9Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz/9.999M	0.001Hz	±(0.5%+3)
Duty cycle	1%-99%	0.1%	±(1%)
Diode	0V-3.3V	0.001V	-
	Display OL above 3.3V		

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Button Descriptio

Button	Function	Operating instructions
HOLD	Data hold	Press the HOLD button once to keep the test value displayed; Press the HOLD button again to release hold mode
RANGE	Range switching	Press RANGE to enter the manual range switching mode, Press and hold the RANGE button for 2 seconds to exit the manual range and enter the automatic range mode.
	Screen backlight switch	Press button once to turn on the screen backlight, and then press button again to turn off the screen backlight.
SELECT	Function switching	When the function knob is switched to a multifunctional gear, pressing the SELECT button can select different measurement functions on the gear.

8. Measurement operation instructions

(1) Leakage function test

- Insert the red lead into the "LE+" socket and the black lead into the "LE-" socket;
- Turn the function knob to the leakage test gear "LE", connect the red lead to the 3V power input of the machine to be tested (such as the remote), and connect the black lead to the GND of the machine to be tested (such as the remote).
- Read the current from the display screen. If OL is displayed, it indicates that the current exceeds the range (6mA) and the standby current of the machine (remote) is too high.

! Attention:

- The multimeter can provide a 3V DC voltage supply, please ensure that there is no other power supply before measuring a machine.

(2) AC/DC voltage measurement

- Insert the red lead into the "VΩ" socket and the black lead into the "COM" socket.
- Turn the function knob to "V" (please select this gear if the voltage to be tested $\geq 600mV$ or it's not clear) or "V~" (voltage to be tested $<600mV$), and connect the probe to the power or load to be tested.
- This gear defaults to DC voltage measurement, and the screen displays "V~". If measuring AC voltage, you can use the "SELECT" button to switch. When measuring AC voltage, the interface displays "V~".
- Read the results from the display screen.

! Attention:

- Select "F" or "M" based on the measured voltage value.
- When measuring high voltage, special attention should be paid to avoid electric shock.
- When the measured voltage is $\geq 30V$, the LCD of this multimeter displays a high voltage warning prompt "V~". When the measured voltage is $\geq 610V$, the multimeter will automatically sound an alarm and display "OL".

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10. Maintenance and upkeep

(1) When the multimeter is not in use, it should be turned off as much as possible to avoid continuous battery energy consumption.

(2) General maintenance

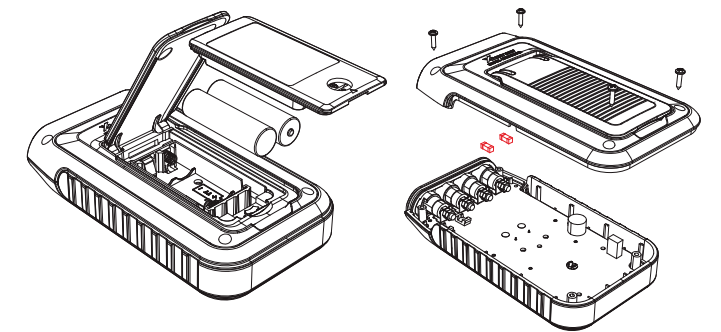
a. The maintenance and service of this multimeter must be completed by qualified professional maintenance personnel or designated maintenance departments.

b. Regularly use a dry cloth to clean the casing. Do not use cleaning agents containing abrasive or solvent components.

(3) Battery replacement or fuse replacement

The power supply of this product is 2 AA1.5V batteries. Please install or replace the batteries in the following order (as shown in the schematic diagram):

- Turn off the multimeter.
- Turn the back of this product upwards, open the flip cover, and turn the battery box knob to facing downwards, pull out the battery cover, remove the battery, and install a new battery according to the polarity instructions.
- After installing the new battery, install the battery cover and turn the battery case knob to facing downwards.
- If the fuse needs to be replaced, it is necessary to unscrew the bottom shell screws, open the back panel, and replace the same specification of fuse according to the damaged part: as shown in the figure, the left side is a 12A/250V surge resistant 2410 fuse, and the right side is a 0.8A/250V fast melting 2410 fuse.



Battery Replacement

Fuse Replacement

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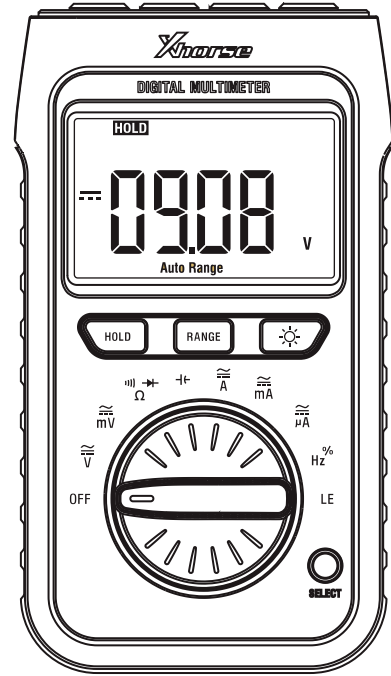
名称: 数字万用表中英文说明书
 尺寸: 展开: 525*284mm 折叠: 105*142mm
 材质: 128g双铜纸双面印刷

正面



DIGITAL MULTIMETER

数字万用表 使用说明书



扫一扫，下载
Xhorse APP

一、概述

本产品是一款综合型智能数字万用表，可用于测量交直流电压、交直流电流、电阻、电容、频率、占空比、二极管及通断性。具有自动量程、数据保持、背光照明、自动关机等功能。在传统万用表功能上，增加漏电检测功能。（适用于电子产品静态漏电检测，尤其适用于遥控器超低功耗产品），无需外接电源，提供直流3V供电，快捷检测静态漏电流值。

警告：在使用仪器之前，请仔细阅读本说明书中有关“安全”和“！”注意的相关内容，并严格遵守。

二、产品特点

- 漏电检测，无需外接电源，快捷检测遥控器静态漏电流值。
- 电量检查，开机瞬间自动供电量检测，低电量时屏幕界面提示“ ”标志。
- 误测保护，最大可承受600V (30kVA) 冲击，并支持过压、过流报警提示。
- 6000字LCD背光大屏幕显示，读数更清晰，暗光环境使用更方便。
- 提供uA档位，适用小电流测量，读数精确至0.1uA。
- 整机功耗少于3mA，配备自动省电功能，续航时间长。

三、开箱检测明细

打开包装盒后请仔细检查以下配件是否缺少或损坏：

万用表	一台
表笔	一副
使用说明书	一本
保修证	一张

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3. 电阻测量

- 1) 将红表笔插入“**VO**”插孔，黑表笔插入“**COM**”孔。
- 2) 将功能旋钮切至“ ”测量档，并将表笔并联到被测电阻两端上。
- 3) 从显示屏上读取测试结果。

- ！ 注意：**
- 如果被测电阻开路或阻值超过仪表最大量程时，显示器将显示“**OL**”。
 - 当测量在线电阻时，必须先将被测电路内所有电源关闭，待所有电容器放尽残余电荷才可以开始测量，以确保测量的准确性。
 - 如果表笔短路时的电阻值不小于0.5Ω时，应检查表笔是否有松脱现象或其它原因。
 - 不要输入直流或交流30V以上的电压，避免伤及人身安全。

4. 导通检测

- 1) 将红表笔插入“**VO**”插孔，黑表笔插入“**COM**”插孔。
 - 2) 将功能旋钮切至“ ”测量档，再使用“**SELECT**”按键选择通断测量功能，此时屏幕显示“ ”。
 - 3) 将表笔并联到被测电阻或回路两端。当电阻值小于50Ω时，则电路导通，内置蜂鸣器发声；测量电阻超过610Ω时，屏幕显示“**OL**”。
- 当检查在线电路通断时，在测量前必须先将被测电路内所有电源关闭，并将所有电容器放尽残余电荷。
 - 不要输入高于直流或交流30V以上的电压，避免伤及人身安全。

5. 二极管测量

- 1) 将红表笔插入“**VO**”插孔，黑表笔插入“**COM**”插孔。
 - 2) 将功能旋钮切至“ ”测量档，再使用“**SELECT**”按键选择二极管测量功能，此时屏幕显示“ ”。
 - 3) 将红、黑表笔可靠接触被测二极管的正、负端（或P、N极）。显示器上直接读取被测二极管的近似正向PN结电压。对硅PN结而言，正常值一般为500-800mV。
- ！ 注意：**
- 如果被测二极管开路或极性反接时，显示“**OL**”。
 - 当测量在线二极管时，在测量前必须先将被测电路内所有电源关闭，并将所有电容器放尽残余电荷。
 - 不要输入高于直流或交流30V以上的电压，避免伤及人身安全。

6. 电容测量

- 1) 将红表笔插入“**VO**”插孔，黑表笔插入“**COM**”插孔。
- 2) 将功能旋钮切至“ ”档位，并将表笔并联到被测电容二端上，从显示屏上读取测试结果。

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！ 注意：

- 如果被测电容短路或容值超过仪表的最大量程时，显示器将显示“**OL**”。
- 对于大于400uF电容的测量，需要一定的读数稳定时间，便于正确读数。
- 为了确保测量精度，建议电容在测试前将电容全部放尽残余电荷后再输入仪表进行测量，对带有高压的电容更为重要，避免损坏仪表和伤及人身安全。

7. 交/直流电流测量

- 1) 将红表笔插入“**A**”插孔（待测电流<0.6A，若不明确电流请使用该插孔）或“**mA/uA**”插孔（待测电流<0.6A），黑表笔插入“**COM**”插孔。
- 2) 将功能旋钮切至“ ”（待测电流>0.6A，若不明确电流请使用该档位）或“ ”（6mA<待测电流<0.6A）或“ ”（待测电流<6mA）
- 3) 该档位默认为直流电流测量，此时界面显示“ ”，若测量交流电流可以使用“**SELECT**”按键进行切换，交流测量时界面显示“ ”
- 4) 将测试表笔串联接入被测回路中，并保证接触可靠，屏幕即显示出被测回路电流值。

- ！ 注意：**
- 在仪表串联到待测回路之前，必须先将其回路中的电源关闭，并认真检查输入端子及其量程开关位置是否正确，确认无误后方可通电测量。
 - 若“**mA/uA**”、“**A**”输入插孔输入过载或误操作，会导致内置保险丝熔断，须按规格更换保险管。
 - 电流档测试时，切勿把表笔并联到任何电压电路上，避免损坏仪表和危及人身安全。
 - 当测量电流接近10A时，每次测量时间应小于10秒，时间间隔应大于15分钟。
 - 被测电流>10A时，蜂鸣器发声报警。

8. 频率/占空比测量

- 1) 将红表笔插入“**VO**”插孔，黑表笔插入“**COM**”插孔。
- 2) 将功能旋钮切至“**Hz**”档位
- 3) 将红、黑表笔测试端并联到待测信号源上，屏幕显示“**Hz**”，可直接读取信号频率；使用“**SELECT**”按键选择占空比测量功能，屏幕显示“**%**”，可读取信号占空比。

9. 其它功能

- 自动关机：在测量过程中量程开关约在15分钟内均无拨动或功能按键按下时，仪表会“自动关机”以节能。在自动关机状态下，按下任一功能键或转动功能旋钮可重新开机。
- 关机状态按住**SELECT**键后再上电开机，自动关机功能将被取消。关机后重新则恢复自动关机功能。
- 蜂鸣器：按任何按键时，如果该功能按键有效，蜂鸣器会发“Beep”一声(约0.25秒)。在测量电压或电流时，蜂鸣器也会间断性发出“Beep”声，以示超量程警告。
- 低电压检测：供电时检测电池电压，当低于约2.4V时，LCD显示“ ”。

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四、安全注意事项

在使用仪表前，请先阅读安全注意事项，并遵循操作说明使用，如果未能按照有关的操作说明使用仪表则有可能削弱或者失去仪表为您所提供的保护能力。

1. 使用前应检查万用表和表笔，谨防任何损坏或不正常的现象。如发现表笔、壳体绝缘已明显损坏以及液晶显示器无显示等情况，或者在您认为仪表已无法正常工作时，请勿继续使用。
2. 后盖及电池盖没有盖好前严禁使用仪表，以防出现电击危险及自身安全。
3. 在进行测量时，握笔手指不能超过过表笔指部位，不要接触裸露的电线、连接器、没有使用的输入端或正在测量的电路，防止触电。
4. 测量前，功能开关必须置于正确位置，严禁在测量中进行转换档位，以防损坏仪表。
5. 请勿在仪表终端及接地之间施加 >600V 以上的交直流电压，以防电击和损坏仪表。
6. 在被测直流电压高于60V或交流电压高于30Vrms的情况下，使用仪表应小心谨慎，防止触电。
7. 请勿测量高于最大允许输入值的电压或电流。在测量在线电阻、二极管或电路通断前，务必将电路中所有电源切断，并在所有电容器放电后再开始测量，否则会导致测量结果不准确。
8. 当液晶显示器显示“ ”标志时，应及时更换电池，以确保测量精度。仪表长期不用时，应取出电池。
9. 请勿随意更改仪表内部接线，以免损坏仪表，危及安全。
10. 请勿在高温、高湿、易燃、易爆和强电磁场的环境中存放或使用本仪表。
11. 维护保养请使用软布及中性清洁剂清洁仪表外壳，切勿使用研磨剂及溶剂，以防外壳被腐蚀，损坏仪表，危及安全。

五、电气符号说明

	接地		AC交流电压或电流
	警示提示		DC直流电压或电流
	高压警示		漏电测试电源正极接线柱
	电池低电量提示		漏电测试电源负极接线柱

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九、技术指标

准确度： $\pm(\text{读数的}\alpha\%+\text{b数字})$ ，校准期为一年。
测试条件：23℃ \pm 5℃，湿度小于80%RH。

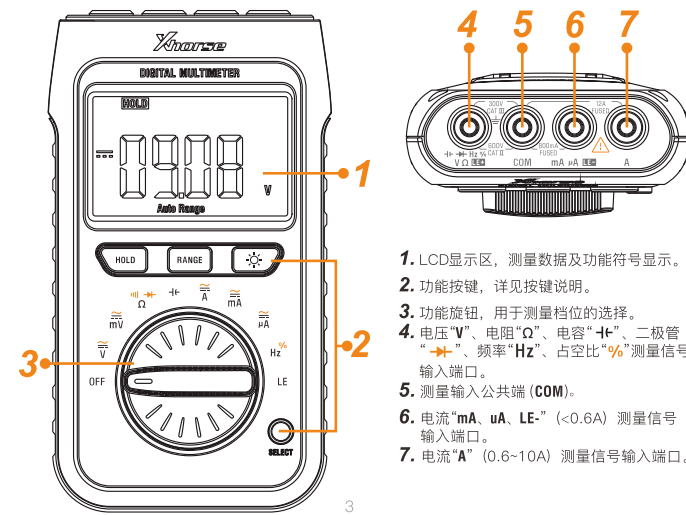
基本功能	测量量程	最大分辨率	准确度
漏电检测	600uA/6000uA	0.1uA	1uA
	600mV	0.1mV	$\pm(0.5\%+3)$
直流电压	6V/60V/600V	0.001V	$\pm(0.5\%+3)$
	600mV	0.1mV	$\pm(0.8\%+3)$
交流电压	6V/60V/600V	0.001V	$\pm(0.8\%+3)$
	600uA/6000uA	0.1uA	$\pm(0.8\%+3)$
直流电流	60mA/600mA	0.01mA	$\pm(0.8\%+3)$
	10A	0.001A	$\pm(0.6\%+3)$
交流电流	600uA/6000uA	0.1uA	$\pm(1\%+3)$
	60mA/600mA	0.01mA	$\pm(1\%+3)$
电阻	50Ω以下发声	0.1Ω	$\pm(1\%+3)$
	610Ω以上显示OL	0.1Ω	$\pm(1\%+3)$
电容	6nF/60nF/600nF/6uF	0.001nF	$\pm(5\%+5)$
	60uF/600uF	0.01uF	$\pm(10\%+5)$
频率	9.999Hz/99.9Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz/9.999M	0.001Hz	$\pm(0.5\%+3)$
占空比	1%-99%	0.1%	$\pm(1\%)$
二极管	0V-3.3V	0.001V	-
	3.3V以上显示OL	0.001V	-

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六、综合特性

- LCD显示 —— 最大显示至6099
- 极性显示 —— 自动正负极性显示
- 过载显示 —— 以“**OL**”或“**OL**”显示
- 耐冲击强度 —— 可承受1m高度落地撞击
- 电源供给 —— 2节AA 1.5V 电池
- 尺寸 —— 160x90x45.6mm
- 重量 —— 约400g (不含电池)
- 操作温湿度 —— 0℃-30℃ (不大于80%RH) , 30℃-40℃ (不大于75%RH) , 40℃-50℃ (不大于45%RH)
- 储存温湿度 —— -20℃+60℃ (不大于80%RH)
- 电磁兼容性 —— 在1V/m的射频场下，总精度=指定精度+量程的5%，超过1V/m以上的射频场没有指定指标

七、外表结构及按键说明



1. LCD显示区，测量数据及功能符号显示。
2. 功能按键，详见按键说明。
3. 功能旋钮，用于测量档位的选择。
4. 电压“V”、电阻“Ω”、电容“F”、二极管“ ”、频率“Hz”、占空比“%”测量信号输入端口。
5. 测量输入公共端（COM）。
6. 电流“mA、uA、LE”（<0.6A）测量信号输入端口。
7. 电流“A”（0.6-10A）测量信号输入端口。

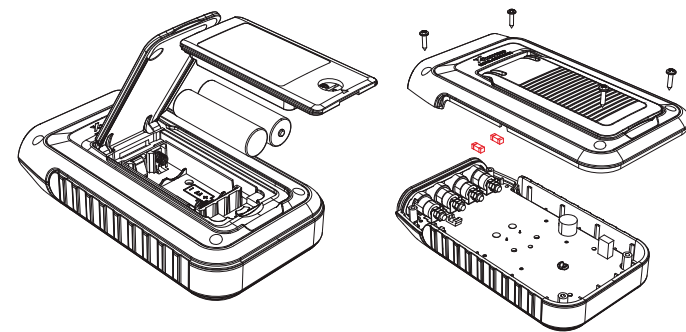
3

十、保养和维护

1. 当仪表不使用时，应尽量关机，避免电池能量持续消耗。
2. 一般维护
 - a. 本仪表的维修与服务必须由有资格的专业维修人员或指定的维修部门完成。
 - b. 定期性使用干布去清洁外壳，请勿使用含有研磨剂或溶剂成份的清洁剂。
3. 电池更换或保险管更换

本产品的电源为2节AA1.5V电池，请按下列顺序安装或更换电池（示意图如下）：

 - a. 将仪表关机。
 - b. 将本产品背面朝上，打开翻盖，旋动电池盒旋钮至 朝下，拔出电池盖，取出电池，按照极性指示安装新电池。
 - c. 安装新电池后，装上电池盖，旋动电池壳旋钮至 朝下
 - d. 如需更换保险管，则需要将底壳螺丝拧开，打开背板后根据损坏部分更换相同规格的保险管：如图左侧为12A/250V抗浪涌式2410保险管，右侧为0.8A/250V快熔式2410保险管。



电池更换

保险管更换

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按键说明

按键	功能	操作说明
HOLD	数据保持	按一次 HOLD 键，测试值保持显示；再按一次 HOLD 键，解除保持模式。
RANGE	量程切换	按 RANG 进入手动切换量程模式，每按一次切换一次量程，长按 RANG 键2s退出手动量程并进入自动量程模式。
	屏幕背光开关	按一次 键打开屏幕背光，再按一次 键关闭屏幕背光
SELECT	功能切换	功能旋钮切到多功能档位时，按 SELECT 键可以选择档位上不同的测量功能。

八、测量操作说明

1. 漏电功能测试

- 1) 将红表笔插入“**LE+**”插孔，黑表笔插入“**LE-**”插孔；
- 2) 将功能旋钮切至漏电测试档“**LE**”，将红表笔连接待测机器（如遥控器）3V电源输入端，黑表笔连接到待测机器(如遥控器)GND；
- 3) 从显示屏上读取电流。如果显示OL，表示电流超量程（6mA）,机器（遥控器）待机电流过大。

- ！ 注意：**
- 万用表可提供3V直流电压供电，待测机器测量前请确保无其他电源供电。

2. 交直流电压测量

- 1) 将红表笔插入“**VO**”插孔，黑表笔插入“**COM**”插孔。
- 2) 将功能旋钮切至“ ”（待测电压 \geq 600mV，若不明确电压请选择该档）或“ ”（待测电压<600mV），并将表笔连到待测电源或负载上。
- 3) 该档位默认为直流电压测量，此时界面显示“ ”，若测量交流电压可以使用“**SELECT**”按键进行切换，交流测量时界面显示“ ”。
- 4) 从显示屏上读取测试结果。

- ！ 注意：**
- 根据测量电压值选择“ ”或“ ”。
 - 在测量高压电时，要特别注意避免触电。
 - 被测电压>30V时，本仪表LCD显示高压警告提示符“ ”，当测量电压 \geq 610V时仪表会自动发出报警声且显示“**OL**”。

数字万用表保修期为一年，以交易凭证上的日期为准；若无交易凭证或交易凭证丢失，则以厂家记录的出厂日期为准。

※ 以下情形恕不免费保修：

- 未按说明书要求使用而造成机器故障的；
- 因自行修理或改造导致机器损坏的；
- 因跌落、碰撞或不当电压造成机器故障的；
- 因不可抗力造成机器损坏的；
- 因长时间在恶劣环境中或车辆、船舶上搭载使用，造成机器故障或损坏的；
- 因使用而导致主机外壳污旧、磨损的。

产品售后维修及技术支持，请联系经销商或扫描说明书背面二维码，下载Xhorse官方APP，咨询在线客服。

图片仅供参考，产品以实物为准。Xhorse对本说明书保留所有权利。未经许可，禁止任何个人与组织以任何形式对本手册的任何部分进行复制和传播。由于产品改进，本手册内容可能会发生变更，恕不另行通知。

返修卡

用户名称：		购买日期：	
联系地址/电话：			
返修日期	故障及原因	维修员	
经销商：	联系电话：		

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反面