



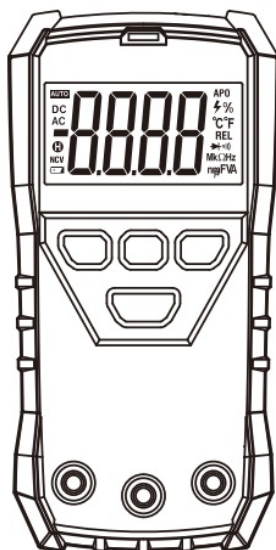
Assark 85D Digital Multimeter Voltage Tester Instruction Manual

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Assark 85D Digital Multimeter Voltage Tester Instruction Manual



YEAR LIMITED WARRANTY

o protect your consumer rights and improve your shopping experience, we. recommend you activate the Assark 1 Year Limited Warranty when you receive the product,

Why need to activate the warranty as soon as possible? I case you meet the following conditions: «You have problems with the product but do not know how to contact customer service * You request a retur or a refund but Amazon retur window is closed « Other reasonable situations

What you will get after activating the warranty? * Your product is backed by the Assark 1 Year Limited Warranty now, which allows you to request a product replacement or a refund, from the date of purchase:

Warranty Period	Amazon	Assark
Within 30 days	✓	✓
Exceeding 30 days	✗	✓
Exceeding 1 year	✗	It depends

‘And you will enjoy the following services:

- « Professional customer support
- « Prompt processing within 1 business day
- « Return/refund without returning the item
- * The quick start guide video.

Please feel free to contact us:

« Email (Recommended): service@assark.com Subject: #Activate the Assark Warranty# ‘Amazon Order Number: xxx000co-xo0000x « Call Currently only available in English): USA: (323)250-0565 UK: +44 20 3287 2598 DE: +49 351 838 03753 « Amazon Message We will get back to you within 1 business day.

INTRODUCTION

Assark 85D is a multi-purpose true-RMS digital multimeter that can automatically select the appropriate function and range according to the input measurement signals for easy, fast, and convenient electrical measuring. This high-performance Meter is equipped with a 6000-count LCD display to give clear and accurate readings. It is designed to meet safety standard [IEC61010-1 CAT III 600V], and provides overload protection on all ranges to ensure safe and reliable operation.

“This battery-powered Meter is expert in measuring AC/DC voltage, AC/DC current, resistance, capacitance, testing diode and continuity, and tracing live wires. With a lot of practical features, such as auto power off, NCV (Non-Contact Voltage) detector, backlight, and built-in torch, it is an ideal entry-level tool for lab, school, factory, and home use.

SAFETY NOTES

The Meter conforms to [IEC61010-1 CAT III 600V] safety standard. Please read all safety information and all instructions carefully before you use the Meter.

1. Limit operation to the specified measurement category, voltage, or amperage ratings. Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.
2. The safety voltage is not higher than 36V. Before measuring voltage higher than 36V DC or 25V AC, check the connection and insulation of test leads to avoid electric shock. When the input voltage (AC or DC) is higher than 24V, the high voltage warning symbol 4 * will appear on the display. Remove test leads from the Meter before changing function mode or range. Use the correct terminals, function, and range for measurements. Install the batteries and lock the battery door before operating the Meter. To avoid electric shock, injury, or damage to the Meter, disconnect circuit power and discharge all high-voltage capacitors before testing resistance, continuity, diodes, or capacitance. Turn off the power and remove test leads from the Meter before replacing the batteries or fuse. Always adhere to local and national safety codes. Use personal protective equipment (such as rubber insulating gloves, goggles, flame-resistant protective clothing etc.) to prevent shock and arc blast injury where hazardous live conductors are exposed.
9. Always use probes, test leads, and accessories that have the same measurement category, voltage, and amperage ratings as the Meter.
10. Do not use the Meter around explosive gas, vapor, or in damp or wet environments.

Do not expose the Meter to magnetic fields, extreme heat, or expose to direct sunlight for long periods of time. 12.
Do not use the Meter with damaged probes, test leads, and accessories or after the Meter malfunctions or is
dropped or damaged in any manner, please contact our customer service for a replacement.

Safety and Electrical Symbols

PRODUCT OVERVIEW

Technical Specifications.

LCD Digital Display: 6000 counts (3 5/6), auto polarity indication Sampling Rate: approx. 3 times per second
Measuring Technology: A/D converter Over Range Indication: "OL" appears on the screen Low Battery Indication:
"€" appears on the screen Operating Environment: 0°C to 40°C, relative humidity < 75% Storage Environment: -
20°C to 60°C, relative humidity < 85% Power Supply: 2 1.5V AAA batteries Size: 146mm x 72mm x 30mm
Weight: approx. 210g (batteries are included)

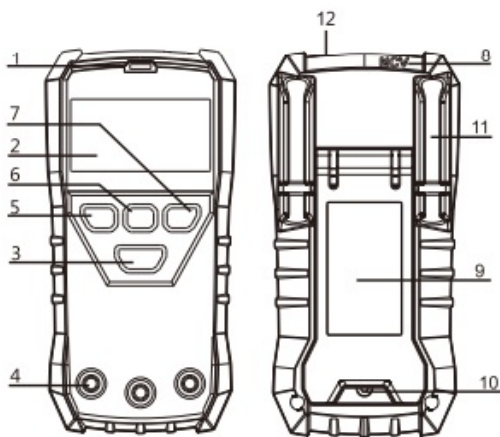
Box Contents:

Assark 85D Digital Multimeter (1 piece) | Probe Test Leads (1 pair)
Alligator Clip Test Leads (1 pair) 1.5V AAA Batteries (2 pieces)
Carrying Box (1 piece) User Manual (1 piece)

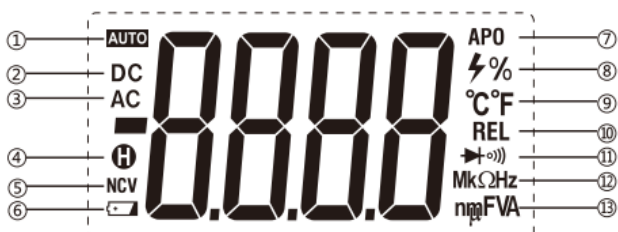
Product Description

8. 10. Battery door screw 11. Test lead holder

Sound alarm indicator 6000-Count LCD display Power/Live wire tester/ Auto range button Input terminal Function
selection button ("FUNC") Torch/NCV detector button (et INCV) : Data hold/Backlight button ("HOLD BIL") NCV
sensing area Support stand



Display



1	Auto Range	2	DC Measurement
3	AC Measurement	4	Data Hold
5	NCV (Non-Contact ACV Measurement)	6	Low Battery
7	Auto Power Off	8	High Voltage/Duty Cycle
9	Celsius/Fahrenheit	10	Relative Value Measurement
11	Diode/Continuity Test	12	Resistance/Frequency Units
13	Capacitance/Voltage/Current Units		

1. Function Buttons power/Live wire tester/Auto range button Long press this button for more than 2 seconds to turn on/off the Meter, short press to select auto range or live wire detector mode.
2. Function selection button ("FUNC") 2.1 Short press to change under the following modes: DC voltage, AC voltage, resistance, continuity and diode, capacitance, and auto range. 2.2 Short press to choose AC or DC current measurement mode when measuring current in a circuit insert the red test lead into "mA/A" jack)
3. Torch/NCV detector button ("=" / NCV) Short press this button to turn on/off NCV detector mode, long press more than 2 seconds to switch on/off the torch
4. Data hold/Backlight button ("HOLD B/L") Short press to turn on/off data hold (display hold) mode, "H" will appear on the screen when the mode is turned on. Long press for more than 2 seconds to power on/off backlight, the backlight will automatically turn off after 15 seconds.

WARNING: To prevent possible electric shock, fire, or personal injury, do not use data hold mode to determine if a circuit is live or measure unknown voltage in a circuit. When data hold mode is turned on, the LCD screen will keep original data even you measure a different voltage.

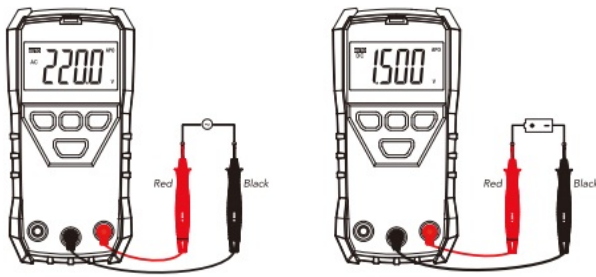
IV. OPERATING INSTRUCTIONS

Always check the battery status before using the Meter, select the correct measured range according to your needs. If the Meter is out of power, "batt" will appear on the display. Please kindly note the sign "⚠" beside the terminals, it warns that test voltage and current cannot exceed the specified value in this manual or on the product. * AUTO range mode: Can be used for measuring resistance, continuity, DC/AC voltage, and DC/AC current. « Manual mode: You can manually change the measurement mode by pressing the "FUNC" button, which can measure DC/AC voltage, continuity (600Ω), diode, and capacitance.

1. DC/AC Voltage Measurement

1.1 According to your actual requirements, select DC or AC voltage measurement mode under AUTO or Manual mode 1.2 Connect the test leads across to the tested circuit, the voltage and polarity of the red test lead will show on the display: 1.3 Insert the black test lead into "COM" jack and red test lead into "VΩ" jack. 1.4 Read measurement results on the display.

2. Note: "OL" shows on the screen, it means "over range". – When measuring a high voltage (above 220V), use personal protective equipment to prevent shock and arc blast injury where hazardous live conductors are exposed.



2. DC/AC Current Measurement

2.1 Insert the red test lead into “mA/A” jack, the Meter defaults to DC current measurement mode.

2.2 Short press the “FUNC” button to choose AC current measurement mode, if needed.

2.3 Insert the black test lead into “COM” jack, and the red test lead into “MA/A” jack.

2.4 Connect the Meter in-series in the circuit using the test leads.

2.5 Read measurement results on the display.

2. Notes – Before connecting the Meter in the circuit (using the test leads), you should turn off the power of the circuit first, and then check if the input terminal and range/mode function well. Do not use the current jack (“mA/A”) to measure voltage.

– The maximum measuring current is 10A.

The Meter alarms when exceeding the maximum measuring range. Overload input or wrong operation will blow the fuse. – When measuring a large current (above 5A), continuous measurement will cause heat in the circuit, affect measurement accuracy and even damage the Meter. Measuring time shall not exceed 10 seconds, and please allow the Meter to recover for more than 15 minutes before the next measurement.

3.1 In AUTO mode

, connect the test leads across the tested resistance.

3.2 Insert the black test lead into “COM” jack, and the red test lead into “J8K” jack

3.3 Read measurement results on the display.

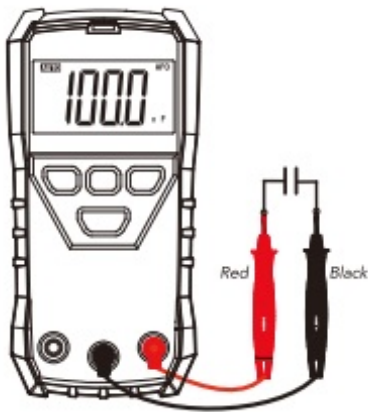
Not The screen shows “OL*” when the tested value exceeds selected measurement range (over range). When tested value is 0 it takes a few seconds to obtain the accurate reading. It is normal for high resistance measurement. A – To avoid electric shock, injury, or damage to the Meter, disconnect circuit power and discharge all high-voltage capacitors before testing resistance.



4 4.1 Enter capacitance measurement

mode manually by pressing the “FUNC” button, and connect the test leads to the tested capacitor. Make sure the polarity of the red test lead is “+”. 4.2 Connect the black test lead to “COM” jack and the red test lead to “2” jack. 4.3 Read measurement results on the display. 5 Note

– The measurement range of capacitance will vary according to the capacitance value. If the capacitance is over 1000 nF, the measurement range of capacitance is 60mF. 000 – The distributed capacitance of the lead wire and the Meter may affect capacitance measurement results (the Meter will display a residual reading), especially for measuring small capacitor. The residual reading can be subtracted from the measurement result to get an accurate value. – When measuring large capacitance, the reading may not be stable caused by capacitor leakage or breakdown. The Meter will take a few seconds to stabilize. It is normal for large capacitance measurement. To avoid electric shock, injury, or damage to the Meter, disconnect circuit power and discharge all high-voltage capacitors before testing capacitance.



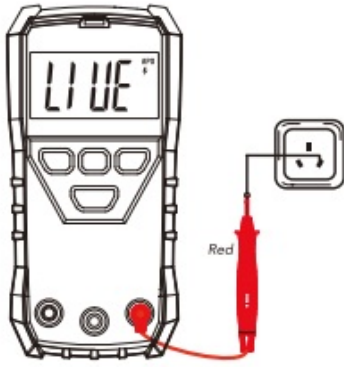
5. Diode Test

5.1 Select diode test mode manually by pressing the “FUNC” button. 5.2 Insert the black test lead into “COM” jack and the red one into “VΩ” jack. Make sure the polarity of the red test lead is “+”. 5.3 When the reading is a close approximation of positive voltage drop of the diode, it indicates forward bias. “OL” on the screen indicates reverse bias.



6. Continuity Test

6.1 Select continuity test mode under “AUTO” or Manual mode. 6.2 Insert the black test lead into “COM” jack and the red one into “VΩ” jack. 6.3 Connect the test leads to the circuit to be tested. If the resistance is less than 50Ω, “1” shows on the screen, the buzzer beeps. In Manual mode, the screen displays “OL” when the resistance is more than 600Ω.

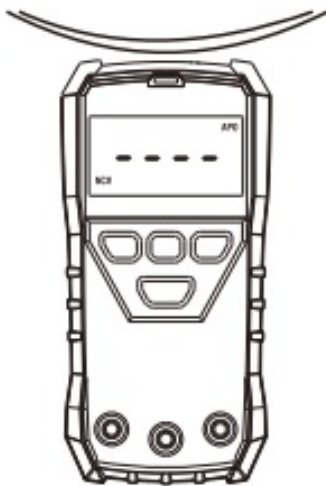


7. Live Wire Detector

7.1 Short press the “POWER/Live” button to select live wire detector mode. n 7.2 Insert the red test lead into “W8K” jack, HUE and contact the measured point using the red test lead. (wal=) 1 A=) 7.3 I the red indicator flashes and the buzzer beeps, the measured line is e wire. If nothing changes, the measured «] line contacted by the red test lead is

8. Non-Contact Voltage (NCV)

Detector ~ =” 81 Short pres the “= <= /NCV” button to
 ‘switch to NCV detector mode. 3 8.2 The voltage range can be detected is . from 48V to 250V place the top o the
 5 Meter (NCV sersing are) close o the So0 ‘AC.power n 1 be estd. When AC ctage s detecte the sreen shows o
 the re inetor shes, s e buruerbaops. The stronger the AC voltage & detected ho more © 0) hoizotal nes ” show an
 he sree, e faser th IncicatorRashesand busserbeeps.



Nots

When the measured electric field voltage i higher than AC 100V, make sure the conductor of the measured electric field i insulated to avoid electric shock.

9. Auto Power Off (APO) To save battery power and extend service lfe, APO function is already set by default when you tur on the Meter. It will automatically power of in 14 minutes. without any operation. Before shutdown, the Meter gives 3 short beeps first, and then a long beep if il no further operation.

V. ELECTRICAL SPECIFICATIONS


Accuracy is specified for 1 year after calibration, at operating temperatures of 18°C to 28°C, with relative humidity at 0 % to 75 %. Accuracy specifications take the form of; = (% of Reading | + [Counts]
DC Voltage

VII. MAINTENANCE

1. Never disassemble the Meter or change the inner circuit 2. Keep the Meter away from water and dust 3. Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. 4. Remove the batteries when the Meter is not in use for a long period.

TROUBLESHOOTING

If the Meter does not work properly, please read the table below:

Problem Description	Solution
No reading on the LCD display	1. The Meter is turned off: Long press the Power button for more than 2 seconds to turn on the Meter 2. The measurement mode is wrong: Select the appropriate mode 3. Replace the batteries
"  appears on the screen	Replace the batteries
No current input	Replace the fuse
Big measurement error	Replace the batteries
Backlight is not bright	Replace the batteries

IX. DISPOSAL



Make sure you dispose of the product, accessories, batteries, and packaging in accordance with your local laws and regulations.

Address: Jingyuan 7th Road, Jinghe Industrial Park, Gaoling District, Xian, China, 710000 Email senice@assark.com
CallUSAY: (323) 2500585

Hersteler: Xi'an Beicheng Electronics Co., Ltd. Adresse: Jingyuan 7th Road, Jinghe Industrial Park, Gaoling District, Xian, China, 710000 Email somvico@assark.com Telefonnummer (Germany): +49 351 838 03753 Derzeit nur in Englisch verfügbar

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Documents / Resources



Thank you for your purchase. Please read this manual carefully before using the product, and keep it for future use.

[Assark 85D Digital Multimeter Voltage Tester](#) [pdf] Instruction Manual

85D, 85D Digital Multimeter Voltage Tester, Digital Multimeter Voltage Tester, Multimeter Voltage Tester, Voltage Tester, Tester

References

- User Manual