

Description

Daily Tools Store

Bu test cihazı çok yönlüdür ve elektronikte çok çeşitli uygulamalar için uygundur. Dirençleri, capacitors satörleri, sürekliliği veya diyotları test etmeniz gerekip gerekmediği, bu test cihazı sizi kapsıyor. Yüksek doğruluğu, güvenilir sonuçlar sağlar ve profesyoneller ve hobi sahipleri için önemli bir araç haline getirir.

Özellikler:

SMD test cihazı: el test sayfası bileşenleri, doğru test, bileşenlerin hızlı yargılanması.

EI yama testi: dirençler/kapasitörler/diyotlar ve diğer bileşenleri, doğru testi tanımlayabilir.

Direnç testi: aşırı yüklendiğinde direnç ölçüm modunu seçin, 'eski sembol LCD ekranda görüntülenir.

Forceps kafasını değiştirin: farklı uygulama senaryolarına uyum sağlayın ve daha doğru ölçüm kararlılığı sağlayın.

Diyot testi: dahilli diyot tespit etmek kolay, ayrıca gemide Test edilebilir, iyi ürün testi, hafif ve kullanışlı.

Otomatik kapanma: 1 CR3032 düğme pil kullanın (dahil değildir), 20 dakika sonra başlangıç, güç tasarrufu için otomatik olarak kapanacaktır!

Veri tutma tuşu: bu tuşa basıldığında, ölçüm cihazı test verilerini yenilemeyi durdurur, mevcut test verilerini korurken ve bu tuşa basıldığında normal test durumuna geri döner.

Özellikler:

Model: GN701

Malzeme: ABS

Direnç: 0Ω-30MΩ, 0.1Ω-10kΩ, ± (okuma + 3 basamaklı % 1.2%)

Kapasitör: 0nF-30mF, 1pF-10uF, ± (okuma + 3 basamaklı % 3.0%)

Diyot: evet

Buzzer: evet

Veri saklama: evet

Otomatik kapanma: evet

Düşük pil istemi: evet

Ekran: LCD ekran

Güç kaynağı: 3V CR3032 düğme pil (Dahil değildir)

Maksimum sayım: 3000 sayıs

Çalışma sıcaklığı ve nem: 0 °C - 40 °C / 32 °F - 104 °F, <80% RH

Depolama sıcaklığı ve nem: -10 °C - 50 °C / 14 °F - 122 °F, <70% RH

Güvenlik seviyesi: 2014/30/ab CAT II

Ürün boyutu: 172.5*32*21mm / 6.79*1.26 * 0.82in

Paket ağırlığı: 100g / 3.53oz

Paket boyutu: 20*5*2.8cm / 7.87*1.97 * 1.10in

Paket listesi:

1 * akıllı SMD test cihazı

1 * ölçer kalem kapağı

2 * altın kaplama Test iğnesi

1 * ambalaj kutusu

1 * kullanım kılavuzu (İngilizce)

Smart SMD tester

SMD tester

Handheld test sheet components, accurate test, quick judgment of components





Smart SMD tester

Resistor test

Select the resistance measurement mode, when overloaded, the 'OL' symbol is displayed on the LCD screen



Component testing



Instrument nib test end alignment diode positive and negative test.



Automatically identify the resistor and contact the two ends of the resistor with a stylus.



The nib of the instrument can test both ends of the capacitor.



On-off test, when the measured resistance value is less than 30Ω, a buzzer will be issued.

Smart SMD tester

Capacitance

Select the capacitance mode to contact the capacitance in the circuit board

Data hold key

When this key is pressed, the meter stops refreshing the test data, while maintaining the current test data, and returns to the normal test state when this key is pressed





Smart SMD tester

Diode test

Easy to detect built-in diode, can also be tested on the board, good product testing, light and convenient



Smart SMD tester

Accessories

- ①.Packaging color box
- ②.Smart SMD tester
- ③.Gauge pen cover
- ④.Instruction Manual
- ⑤.Gold-plated test needle * 2





3000 Counts

GN701





GN701 Function table

Function	Range	Resolution	Precision
Resistance	0Ω-30MΩ	0.1Ω-10kΩ	± (1.2% of reading + 3 digits)
Capacitor	0nF-30mF	1pF-10μF	± (3.0% of reading + 3 digits)
Diode		✓	
Buzzer		✓	

Data retention	✓	Screen	LCD display
Auto power off	✓	Use battery	3V CR3032 button battery
Low battery prompt	✓	Max count	3000 count
Operating temperature and humidity	0~40°C(32~104°F)&<80%RH		
Storage temperature and humidity	-10~50°C(14~122°F)&<70%RH		
Security level	2014/30/EU CAT II		

THE ABOVE PARAMETERS ARE FOR REFERENCE ONLY, AND THE ACTUAL MEASUREMENT OF THE SPECIFIC EQUIPMENT SHALL PREVAIL!

Smart SMD tester

Replace the forceps head

Adapt to different application scenarios and provide more accurate measurement stability

• Fine tip forceps head



• Flat tip forceps head



Negative extreme

Positive extreme

Loosen the screws and replace the tweezers head

Gold Plated Test Tweezers Head





Gold plated test needle

COM terminal, negative electrode

Gold plated test needle (replaceable)

Different types of test needles can be replaced

Gold plated test needle

INPUT terminal, positive

(F) Control key

Long press: power switch; single press: give you the selection button

LCD screen

Show clearly

(H) Control key

Keep the current value on the screen

Gauge pen cover

When not measuring, cover the watch to protect the test needle

GN701 Digital Smart SMD Tester User Manual

1. INTRODUCTION

The GN701 Smart SMD Tester is a handheld, battery-operated digital multimeter designed for convenient testing of Surface Mount Devices (SMD) and other electronic components. It features automatic range selection, automatic scan mode, and a clear LCD display, making it an essential tool for electricians and electronics enthusiasts for measuring resistance, capacitance, continuity, and performing diode checks.



Figure 1.1: GN701 Smart SMD Tester, showing the device, its protective cover, replacement test needles, and the user manual.

2. PACKAGE CONTENTS

Please check the package contents upon opening to ensure all items are present:

- 1 x GN701 Smart SMD Tester
- 1 x User Manual
- (Optional: Replacement Gold Plated Test Needles, if included in specific package variant)

3. PRODUCT FEATURES

- **Auto Range:** Automatically selects the appropriate measurement range.
- **Automatic Scan Mode:** Simplifies component identification and measurement.
- **Low Battery Indicator:** Alerts the user when battery replacement is needed.
- **LCD Display:** Clear 3000-count digital display for precise readings.
- **Data Retention:** Allows holding the displayed measurement value.
- **Auto Power Off:** Conserves battery life by automatically shutting down after a period of inactivity.

4. PARTS IDENTIFICATION



Figure 4.1: Key components of the GN701 Smart SMD Tester.

1. **Gold Plated Test Needle (INPUT terminal, positive):** The positive probe for measurements.
2. **Gold Plated Test Needle (COM terminal, negative electrode):** The negative probe for measurements.
3. **Gold Plated Test Needle (Replaceable):** Indicates that different types of test needles can be interchanged.
4. **Control Key (F):** Long press to power on/off. Single press to cycle through selection options.
5. **LCD Screen:** Displays measurement readings and function indicators clearly.
6. **Control Key (H):** Used to hold the current measurement value on the screen.
7. **Gauge Pen Cover:** A protective cover for the test needles when the device is not in use.

5. SETUP

5.1 Battery Installation

The GN701 tester requires a 3V CR3032 button battery. To install or replace the battery:

1. Locate the battery compartment on the back of the device.
2. Open the battery cover using a small screwdriver or coin.
3. Insert the CR3032 battery with the positive (+) side facing up.
4. Close the battery cover securely.

5.2 Powering On/Off

- **To Power On:** Long press the "F" Control Key until the LCD screen illuminates.

- **To Power Off:** Long press the "F" Control Key again until the display turns off. The device also features an auto power-off function to conserve battery life.

6. OPERATING INSTRUCTIONS

The GN701 Smart SMD Tester operates primarily in an automatic scan mode, simplifying the measurement process. Simply touch the component with the test needles, and the device will automatically identify the component type and display the relevant measurement.

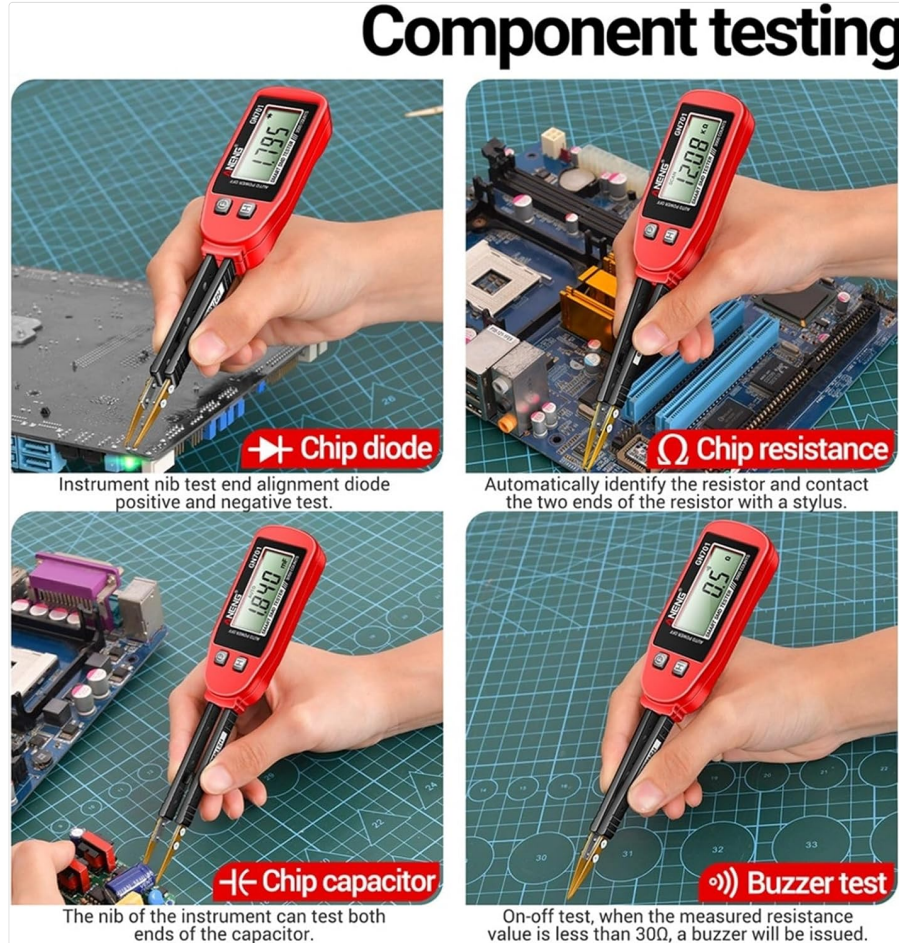


Figure 6.1: Demonstrations of testing various components.

6.1 Resistance Measurement

The tester can measure resistance from 0Ω up to 30MΩ. In automatic scan mode, simply contact the two ends of the resistor with the test needles. The device will automatically identify it as a resistor and display its resistance value.

6.2 Capacitance Measurement

The tester can measure capacitance from 0nF up to 30mF. Touch the two ends of the capacitor with the test needles. The device will automatically identify it as a capacitor and display its capacitance value.

6.3 Diode Check

To perform a diode check, touch the anode and cathode of the diode with the respective positive and negative test needles. The device will indicate the diode's forward voltage drop or an open/short circuit condition.

6.4 Continuity Test (Buzzer)

For continuity testing, touch the two points you wish to test with the needles. If the measured resistance value is less than 30Ω, the buzzer will sound, indicating continuity.

6.5 Data Hold Function

Press the "H" Control Key to hold the current reading on the display. Press it again to release the hold and resume live measurements.

7. SPECIFICATIONS

The following table outlines the technical specifications of the GN701 Smart SMD Tester. Please note that these parameters are for reference only, and actual measurements of the specific equipment shall prevail.

GN701 Function table			
Function	Range	Resolution	Precision
Resistance	0Ω-30MΩ	0.1Ω-10kΩ	± (1.2% of reading + 3 digits)
Capacitor	0nF-30mF	1pF-10μF	± (3.0% of reading + 3 digits)
Diode		✓	
Buzzer		✓	
Data retention	✓	Screen	LCD display
Auto power off	✓	Use battery	3V CR3032 button battery
Low battery prompt	✓	Max count	3000 count
Operating temperature and humidity		0~40°C(32~104°F)&<80%RH	
Storage temperature and humidity		-10~50°C(14~122°F)&<70%RH	
Security level		2014/30/EU CAT II	

THE ABOVE PARAMETERS ARE FOR REFERENCE ONLY, AND THE ACTUAL MEASUREMENT OF THE SPECIFIC EQUIPMENT SHALL PREVAIL!

Figure 7.1: Detailed function table of the GN701 tester.

General Specifications

Parameter	Value
Model Number	GN701
Display Type	Digital display (3000 counts)
Operating Mode	Auto
Battery Type	3V CR3032 button battery
Operating Temperature	0 - 40°C (32 - 104°F)
Operating Humidity	<80% RH
Storage Temperature	-10 - 50°C (14 - 122°F)
Storage Humidity	<70% RH
Dimensions	175 x 32 x 20mm (6.89 x 1.26 x 0.79 inches)
Item Weight	1.76 ounces (approx. 50g)
Security Level	CAT II (2014/30/EU)



Figure 7.2: Physical dimensions of the GN701 Smart SMD Tester and its components.

8. MAINTENANCE

8.1 Cleaning

Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure the device is powered off before cleaning.

8.2 Battery Replacement

When the low battery indicator appears on the LCD, replace the 3V CR3032 button battery as described in Section 5.1. Remove the battery if the device will not be used for an extended period to prevent leakage.

8.3 Storage

Store the tester in a cool, dry place, away from direct sunlight and extreme temperatures. Always use the gauge pen cover to protect the test needles when storing.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead battery; incorrect battery installation.	Replace battery (CR3032). Ensure battery is installed with correct polarity.
Inaccurate readings.	Dirty test needles; component not properly contacted; out of measurement range.	Clean test needles. Ensure firm contact with component. Verify component is within the tester's specified range.
Low battery indicator is on.	Battery voltage is low.	Replace the 3V CR3032 button battery.
No buzzer sound during continuity test.	Resistance is above 30Ω; open circuit.	Check the circuit for breaks. The buzzer only activates for resistance below 30Ω.

10. SAFETY INFORMATION

Please read and understand all safety warnings and operating instructions before using this device. Failure to do so may result in injury or damage to the tester or the equipment under test.

- Do not attempt to measure voltages or currents beyond the specified limits of the device.
- Do not use the tester if it appears damaged or if the test needles are broken.
- Always ensure proper contact with the component being tested to avoid inaccurate readings or damage.
- This device is rated CAT II, meaning it is suitable for measurements performed on circuits directly connected to the low-voltage installation. Do not use for measurements on high-energy circuits.
- Keep the device away from water and excessive moisture.
- Do not disassemble or modify the tester. Repairs should only be performed by qualified personnel.

11. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the seller or manufacturer directly through the platform where the product was purchased. Please retain your purchase receipt as proof of purchase.