

GOLDEN BLUE DT-9205A

DT-9205A Handheld Digital Multimeter User Manual

Model: DT-9205A | Brand: GOLDEN BLUE

1. INTRODUCTION

The GOLDEN BLUE DT-9205A is a versatile handheld digital multimeter designed for accurate measurement of various electrical parameters. It is an essential tool for electricians, hobbyists, and anyone working with electronics. This manual provides detailed instructions for safe and effective operation, maintenance, and troubleshooting of your DT-9205A multimeter.



Figure 1: GOLDEN BLUE DT-9205A Digital Multimeter.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the multimeter to prevent personal injury or damage to the device:

- Do not exceed the maximum input values for any range.
- Never use the multimeter if the case is damaged or open.
- Ensure the test leads are properly connected and the function switch is set to the correct range before making any measurements.
- Be cautious when working with voltages above 30V AC RMS, 42V peak, or 60V DC, as they pose a shock hazard.
- Always disconnect the test leads from the circuit before changing the function switch position.
- Replace the battery when the low battery indicator appears to ensure accurate readings.

- Do not use the multimeter in wet environments or around explosive gas or dust.

3. PRODUCT FEATURES

The DT-9205A Digital Multimeter offers a comprehensive set of features for various electrical measurements:

- Measures AC/DC voltage and current, resistance, frequency, diode, triode, continuity, and logic level.
- Clear LCD display for easy reading of measurement results.
- Integrated bracket on the back for convenient hands-free operation.
- Wide measuring range with high precision.
- Includes Sleep Mode to conserve battery life.
- Data Hold function to freeze the displayed reading.
- Maximum display count of 1999.

Product Introduction

• Brand: ANENG · Model: DT-9205A

• Weight: 195g · Color: Blue

• Battery: 6f22 9v

• Accessories: Multimeter/pen/
instruction

• Size: 194.5mm/7.65in* 90.3mm/3.55in*
30.3mm/1.19in



Figure 2: Overview of DT-9205A features and specifications.

4. PACKAGE CONTENTS

Upon opening the package, please verify that all items listed below are present and in good condition:

- 1 x DT-9205A Digital Multimeter

- 1 x Pair of Test Leads (Red and Black)
- 1 x User Instruction Manual

Note: A 6F22 9V battery is required for operation and is NOT included in the package.



Figure 3: Contents of the DT-9205A package.

5. SETUP

5.1 Battery Installation

1. Ensure the multimeter is powered off.
2. Locate the battery compartment cover on the back of the multimeter.
3. Use a screwdriver to open the battery compartment.
4. Insert a new 6F22 9V battery, observing the correct polarity (+/-).
5. Replace the battery compartment cover and secure it with the screw.

5.2 Connecting Test Leads

The test leads are essential for making measurements. Connect them as follows:

- Insert the black test lead into the "COM" (Common) jack.
- For most voltage, resistance, and capacitance measurements, insert the red test lead into the "VΩHz" jack.
- For current measurements, insert the red test lead into the "mA" or "20A" jack, depending on the expected current range.



Figure 4: Key components and input jacks of the DT-9205A Multimeter.

6. OPERATING INSTRUCTIONS

Before taking any measurement, ensure the battery is installed and the test leads are correctly connected for the desired function.

6.1 Power On/Off

Press the **POWER** button to turn the multimeter on. The multimeter will automatically enter sleep mode after a period of inactivity to save battery. To turn it off manually, press the **POWER** button again.

6.2 Function Selection

Rotate the central **Function Knob** to select the desired measurement type (e.g., DC Voltage, AC Voltage, Resistance, Current, Diode, etc.). Ensure the knob points directly to the correct range for your measurement.

6.3 Specific Measurements

6.3.1 DC Voltage Measurement (V—)

- Connect the red test lead to the VΩHz jack and the black test lead to the COM jack.
- Set the function knob to the desired DC Voltage range (e.g., 200mV, 2V, 20V, 200V, 1000V).
- Connect the test leads in parallel across the DC voltage source.
- Read the voltage value on the LCD display.

6.3.2 AC Voltage Measurement (V~)

- Connect the red test lead to the VΩHz jack and the black test lead to the COM jack.
- Set the function knob to the desired AC Voltage range (e.g., 20V, 200V, 750V).
- Connect the test leads in parallel across the AC voltage source.
- Read the voltage value on the LCD display.



Figure 5: Example of AC voltage measurement using the DT-9205A.

6.3.3 DC Current Measurement (A—)

- Connect the black test lead to the COM jack.
- Connect the red test lead to the mA jack for currents up to 200mA, or to the 20A jack for currents up to 20A.
- Set the function knob to the desired DC Current range (e.g., 2mA, 20mA, 200mA, 20A).
- Connect the multimeter in series with the circuit to be measured.
- Read the current value on the LCD display.

6.3.4 AC Current Measurement (A~)

- Follow the same connection steps as DC Current measurement.
- Set the function knob to the desired AC Current range (e.g., 200mA, 20A).
- Connect the multimeter in series with the circuit.
- Read the current value on the LCD display.

6.3.5 Resistance Measurement (Ω)

- Connect the red test lead to the V Ω Hz jack and the black test lead to the COM jack.
- Set the function knob to the desired Resistance range (e.g., 200 Ω , 2k Ω , 20k Ω , 200k Ω , 2M Ω , 20M Ω , 200M Ω).
- Ensure the circuit or component is de-energized before measuring resistance.
- Connect the test leads across the component to be measured.
- Read the resistance value on the LCD display.

6.3.6 Capacitance Measurement (F)

- Connect the red test lead to the V Ω Hz jack and the black test lead to the COM jack.
- Set the function knob to the desired Capacitance range (e.g., 2nF, 20nF, 200nF, 2 μ F, 20 μ F).
- Ensure the capacitor is fully discharged before measurement to prevent damage to the multimeter.
- Connect the test leads across the capacitor.
- Read the capacitance value on the LCD display.

6.3.7 Diode Test ($\rightarrow| \rightarrow$)

- Connect the red test lead to the V Ω Hz jack and the black test lead to the COM jack.
- Set the function knob to the Diode test position.
- Connect the red lead to the anode and the black lead to the cathode of the diode. A forward voltage drop will be displayed.
- Reverse the leads. An open circuit (OL) reading indicates a good diode.

Diode Measurement



Insert the gauge pen into the corresponding hole for measurement



Figure 6: Performing a diode measurement with the DT-9205A.

6.3.8 Continuity Test (🔊)

- Connect the red test lead to the VΩHz jack and the black test lead to the COM jack.
- Set the function knob to the Continuity test position.
- Touch the test leads across the circuit or component. If continuity exists (resistance below a certain threshold), the buzzer will sound.

6.3.9 Transistor (hFE) Test

- Set the function knob to the hFE position.
- Insert the transistor's emitter, base, and collector leads into the corresponding E, B, C holes in the hFE socket, ensuring correct NPN or PNP type.
- Read the hFE value on the LCD display.

Ac voltage Measurement



Family commonly used ac voltage is 220V above



Figure 7: Illustrates various measurement functions including Triode, Resistance, and Diode tests.

7. SPECIFICATIONS

Parameter	Range	Accuracy
DC Voltage	200mV - 1000V	$\pm(0.5\%+1\text{dgt})$
AC Voltage	20V - 750V	$\pm(0.8\%+3\text{dgt})$
DC Current	20mA - 20A	$\pm(0.8\%+1\text{dgt})$
AC Current	200mA - 20A	$\pm(1.8\%+3\text{dgt})$
Resistance	200 Ω - 200M Ω	$\pm(0.8\%+1\text{dgt})$
Capacitance	2nF - 20 μ F	$\pm(2.5\%+3\text{dgt})$
Frequency	2KHz - 20KHz	$\pm(1.5\%+5\text{dgt})$

Parameter	Range	Accuracy
Diode Test	Yes	N/A
Triode Test	Yes	N/A
Continuity Test	Yes	N/A
Temperature Test	Yes	N/A
Logic Level Test	Yes	N/A
Maximum Display	1999	N/A
Power Supply	6F22 9V Battery (Not included)	N/A
Dimensions	194.5mm x 90.3mm x 30.3mm (7.65in x 3.55in x 1.19in)	N/A
Weight	195g	N/A
Color	Blue	N/A



Figure 8: Physical dimensions of the DT-9205A Multimeter.

8. MAINTENANCE

8.1 Cleaning

To clean the multimeter, wipe the case with a damp cloth and a mild detergent. Do not use abrasives or solvents. Ensure the multimeter is completely dry before use.

8.2 Battery Replacement

When the low battery indicator appears on the display, replace the 9V battery as described in the "Battery Installation" section (5.1). Prompt battery replacement ensures accurate readings and proper operation.

8.3 Storage

If the multimeter is not used for an extended period, remove the battery to prevent leakage and damage to the device. Store the multimeter in a cool, dry place, away from direct sunlight and extreme temperatures.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Low or dead battery; Multimeter not powered on.	Replace the 9V battery; Press the POWER button.
"OL" (Overload) displayed	Input value exceeds the selected range; Open circuit.	Select a higher range; Check for open circuit in the component/circuit.
Inaccurate readings	Low battery; Incorrect range selected; Poor test lead connection.	Replace battery; Select appropriate range; Ensure secure test lead connections.
No continuity beep	Open circuit; Resistance too high.	Check the circuit for breaks; Ensure resistance is within continuity threshold.

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your GOLDEN BLUE DT-9205A Digital Multimeter, please refer to the contact information provided on the product packaging or the official GOLDEN BLUE website. Keep your purchase receipt as proof of purchase for warranty claims.

Related Documents - DT-9205A

	<p>DT-9205A Digital Multimeter User Manual</p> <p>User manual for the DT-9205A digital multimeter, covering its purpose, safety precautions, measurement procedures for DC current, AC/DC voltage, transistor testing, diode testing, and conductivity testing, along with specifications and battery/fuse replacement.</p>
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 <p>KOBALT</p> <p>Model: DT-926KIT Electrical Test Kit Model: DT-926KIT</p> <p>Serial Number: _____ Purchase Date: _____</p> <p>WARNING: Improper use of this product may result in injury or death. Read the instructions carefully before using this product. For more information, visit www.kobalt.com.</p>	<p>Kobalt Electrical Test Kit DT-926kit: User Manual and Operating Guide</p> <p>Explore the features and operation of the Kobalt Electrical Test Kit, including the True RMS Digital Multimeter (DT-926), NCV Tester, and Receptacle Tester. This guide provides essential safety information, product specifications, and operating instructions for accurate electrical testing.</p>
 <p>KOBALT</p> <p>Model: DT-926KIT Electrical Test Kit Model: DT-926KIT</p> <p>Serial Number: _____ Purchase Date: _____</p> <p>WARNING: Improper use of this product may result in injury or death. Read the instructions carefully before using this product. For more information, visit www.kobalt.com.</p>	<p>Kobalt Electrical Test Kit DT-926kit - User Guide</p> <p>Explore the Kobalt Electrical Test Kit (Model DT-926kit), featuring the DT-926 True RMS Digital Multimeter and ET-17 Receptacle Tester. Find product details, support information, and specifications.</p>
 <p>CASIO</p> <p>Handheld Terminal DT-X11 Series User's Guide</p>	<p>CASIO DT-X11 Series Handheld Terminal User's Guide</p> <p>User's Guide for the CASIO DT-X11 Series Handheld Terminal. This manual provides essential safety precautions, operating instructions, and specifications for the DT-X11 series devices and their accessories.</p>
 <p>METRAVOI DIGITAL T-RMS AC/DC CLAMP METER DT-725</p> <p>WARNING: Improper use of this product may result in injury or death. Read the instructions carefully before using this product. For more information, visit www.metra-voi.com.</p>	<p>MetraVoi DT-725 Digital T-RMS AC/DC Clamp Meter - Technical Specifications</p> <p>Detailed technical specifications and features of the MetraVoi DT-725 Digital T-RMS AC/DC Clamp Meter, including measurement ranges, accuracy, and general specifications for electrical testing.</p>
 <p>MEXTech</p> <p>DT-450Trms Digital Multimeter User Manual</p>	<p>MEXTech DT-450Trms Digital Multimeter User Manual</p> <p>Comprehensive user manual for the MEXTech DT-450Trms Digital Multimeter, detailing its features, specifications, safety precautions, and measurement procedures.</p>