

ALLmeter B0C4SRMFMD

ALLmeter Pen Type Digital Multimeter AC Voltage Tester (Model B0C4SRMFMD) Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your ALLmeter Pen Type Digital Multimeter, Model B0C4SRMFMD. This device is designed for measuring AC/DC voltage, resistance, diode, and continuity. It also features non-contact voltage (NCV) detection and live wire identification. Please read this manual thoroughly before operation and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Improper use of this meter can cause injury or death. Follow all safety precautions.

- Always ensure the meter is in good working condition before use. Inspect for any damage to the casing or test leads.
- Do not attempt to measure voltages or currents exceeding the specified maximum limits.
- Exercise extreme caution when working with live circuits. Always assume circuits are live until verified otherwise.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Do not use the meter in wet environments or if your hands are wet.
- Ensure the battery compartment is securely closed before operation.
- This device is designed for AC voltage detection in NCV mode and cannot measure DC current.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your ALLmeter Pen Type Digital Multimeter:



Figure 3.1: Labeled diagram of the ALLmeter Pen Type Digital Multimeter. Key components include the Input COM, Portable pen hook, Select key, HOLD key, N/L/P key, Display LCD, Signal strength indicator, LED light, and Test pen tip.

4. SETUP

4.1 Battery Installation

The ALLmeter Pen Type Digital Multimeter requires one AAA battery (included). To install or replace the battery:

1. Locate the battery compartment cover, typically at the rear or top of the device.
2. Open the cover.
3. Insert one AAA battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

The device includes a low-battery indicator on the LCD display to signal when replacement is needed.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the 'Select' button to power on the device. The device will automatically power off after 15 minutes of inactivity to conserve battery life.

5.2 Automatic Measurement Function

In automatic mode, the meter intelligently detects the type of measurement (DC/AC voltage or resistance) and displays the value. This simplifies the measurement process by eliminating the need to manually select ranges.

Automatic function

In this mode the meter detects the usage (DC / AC/Ohm) and displays the value



DC V: The symbols are small but you can see this. In this mode it measures DC/AC voltage.



Ohm (Omega Symbol): Measure resistance

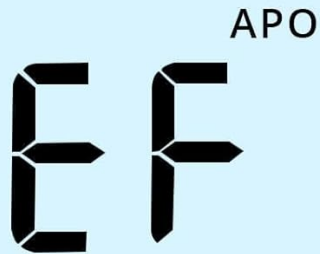
Figure 5.1: Examples of automatic measurement displays for AC voltage, DC voltage, and resistance (Ohm).

5.3 Manual Functions (Electric Field and Live Wire Detection)

Pressing the 'N/L' button cycles through additional functions. Note that in these modes, only AC can be measured, not DC.

Manual function

Pressing the lower N/V button, cycles through the other 2 functions. Please note that in this mode only AC can be measured, not DC.

The image shows a digital display with the letters 'EF' in a large, stylized font. Above the 'F' is the text 'APO'. The display is set against a light blue background.

EF: detects Electric Fields, no ground wire needed. Using this mode you can bring the tip close to a wire and it will detect whether the wire is live or not. USB cable, usb charger, etc.

The image shows a digital display with the word 'LIVE' in a large, stylized font. Above the 'E' is the text 'APO'. The display is set against a light blue background.

LIUE (LIVE): In this mode it behaves like an electrician AC detector. Touch the tip to a wire and it will beep if the wire is live.

Figure 5.2: Displays for Electric Field (EF) and Live Wire (LIVE) detection modes.

- **EF (Electric Fields):** This mode detects electric fields without requiring a ground wire. Bring the tip close to a wire to detect if it is live.
- **LIVE (Live Wire):** In this mode, the device functions as an AC detector. Touch the tip to a wire, and it will beep if the wire is live.

5.4 Diode Measurement

To measure a diode:

1. Press the 'Select' button repeatedly until the diode symbol appears on the screen.
2. Connect the test leads to the diode.

Measure a diode

If you need to measure a diode: Press the select to see the Diode symbol on the screen and then for testing diodes

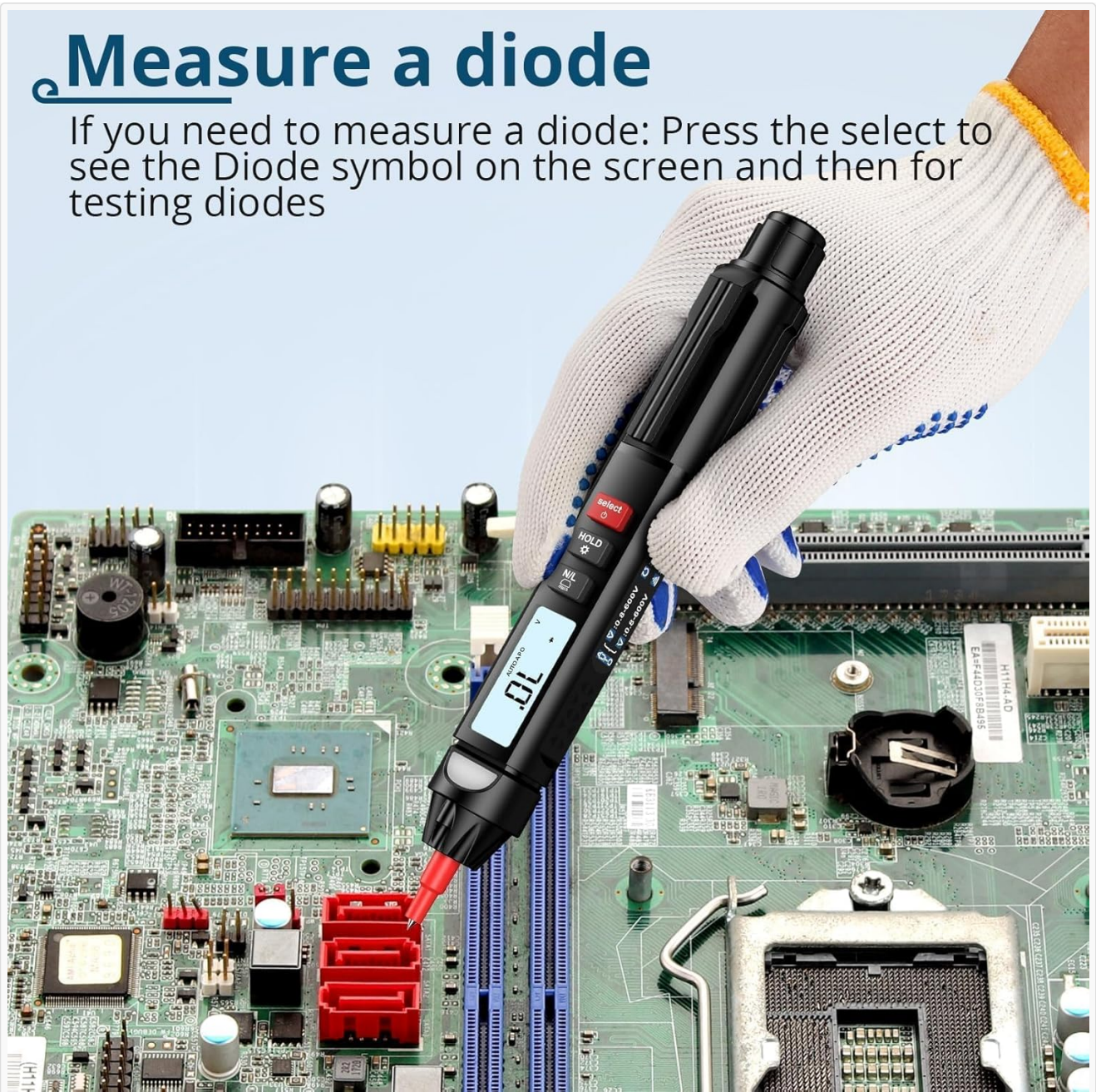


Figure 5.3: Measuring a diode on a circuit board using the multimeter.

5.5 Continuity Test

The continuity test checks for an unbroken path in a circuit. If a continuous path is detected, the meter will emit an audible beep.

5.6 Non-Contact Voltage (NCV) Detection

The NCV feature allows for safe detection of AC voltage without direct contact. The device will indicate the presence of AC voltage within a range of 12V-1000V. In NCV mode, it can only detect alternating current (AC) and cannot measure direct current (DC).



Figure 5.4: Using the NCV function and LED light in a low-light environment.

5.7 Data Hold (HOLD Key)

Press the 'HOLD' button to freeze the current reading on the display. Press it again to release the hold function.

5.8 LED Flashlight

The built-in LED light can be activated to illuminate dimly lit work areas. Refer to the product overview for the location of the LED light.

6. APPLICATIONS

The ALLmeter Pen Type Digital Multimeter is suitable for various electrical testing scenarios:

Non contact /LED light

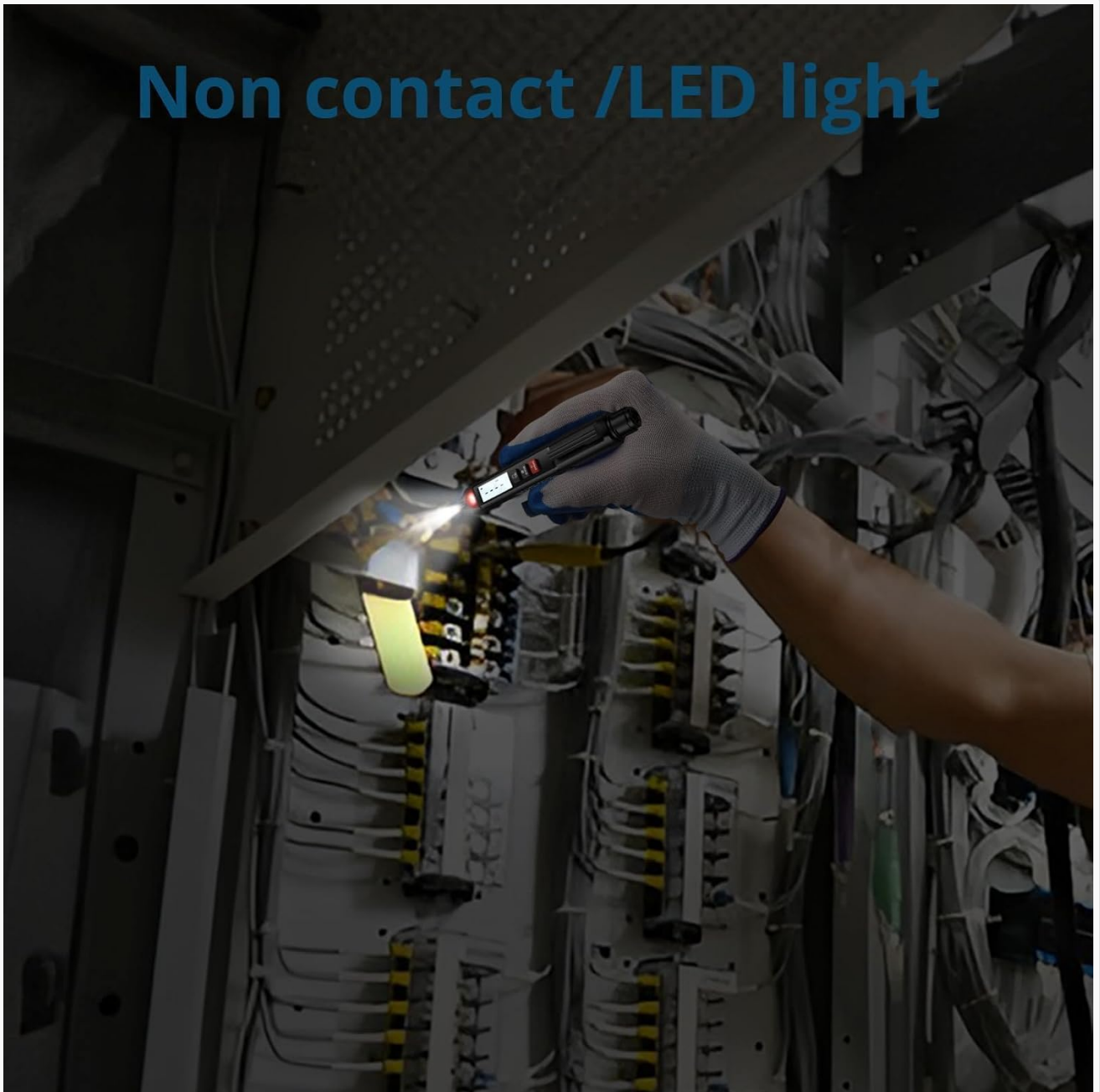


Figure 6.1: Examples of multi-function usage, including testing electrical outlets and circuit breaker panels.

Multi-function

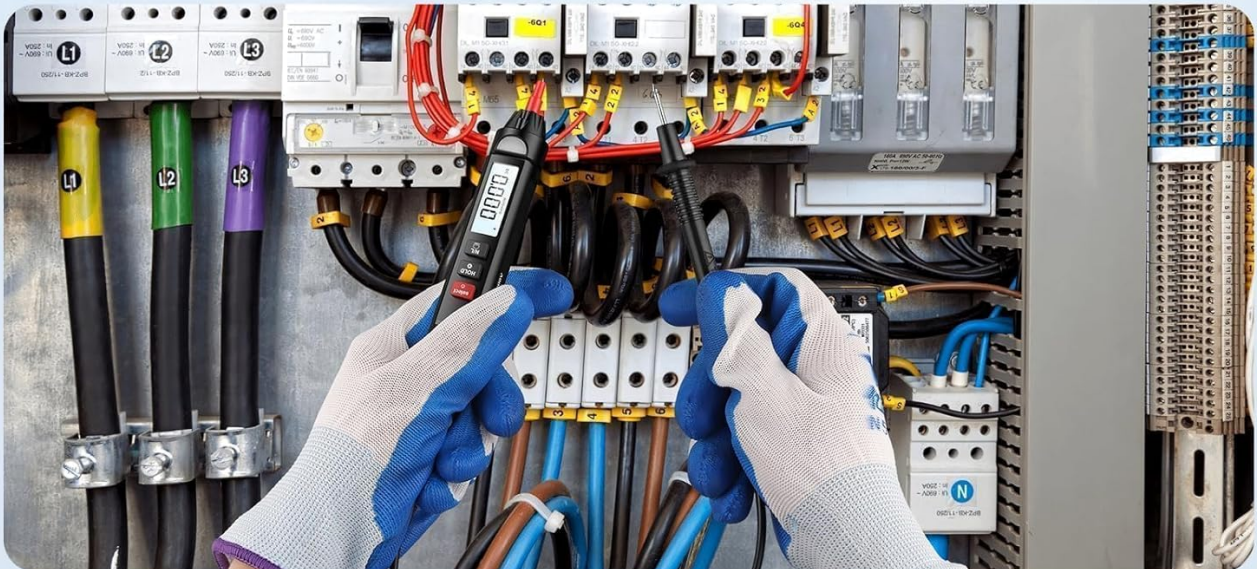
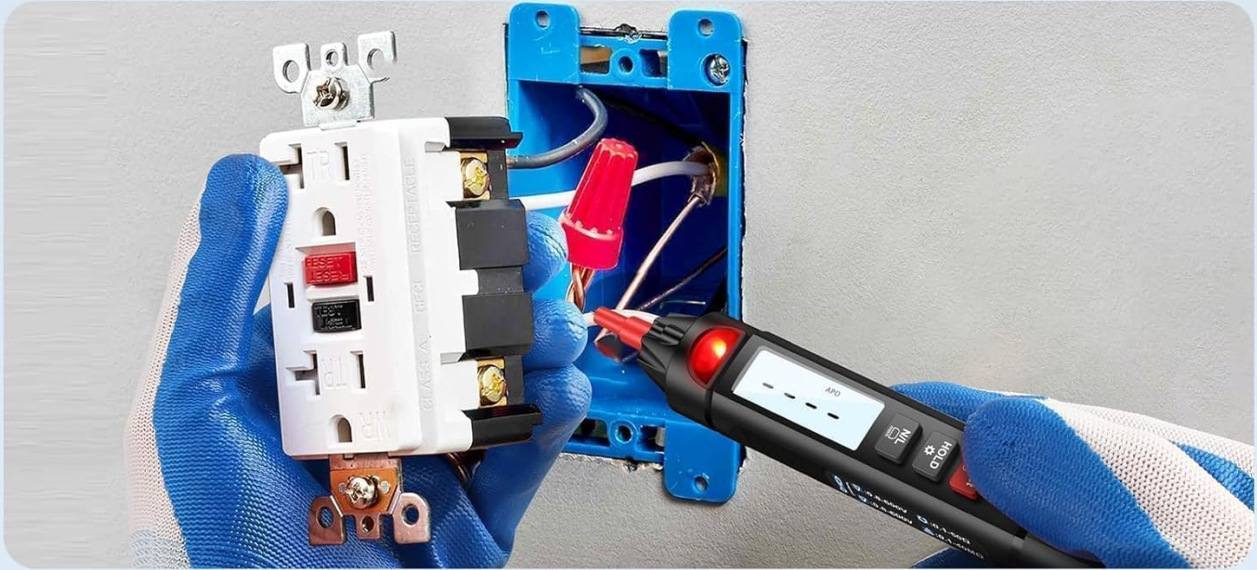


Figure 6.2: Testing electrical components within a car engine.

7. SPECIFICATIONS

Feature	Specification
Model	B0C4SRMFMD
Display	LCD, 6000 Counts
AC/DC Voltage Range	Automatic scanning test (DC/AC 6V, 60V, 600V)
Resistance Range	6k Ω , 60k Ω , 600k Ω , 6M Ω , 60M Ω
Non-Contact Voltage (NCV) Detection	12V-1000V AC
Power Source	1 x AAA Battery (included)
Auto Power Off	15 minutes of inactivity

Feature	Specification
Dimensions	8.11 x 2.24 x 1.34 inches
Weight	4.23 ounces
Color	Black

8. MAINTENANCE

- **Cleaning:** Wipe the meter with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, remove the battery to prevent leakage. Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace the AAA battery when the low-battery indicator appears on the display.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on	Dead or incorrectly installed battery	Check battery polarity or replace with a new AAA battery.
Inaccurate readings	Low battery; incorrect mode selection; environmental interference	Replace battery; ensure correct mode is selected; move away from strong electromagnetic fields.
NCV mode not detecting DC	NCV mode is designed for AC only	This is normal operation. The NCV mode only detects alternating current (AC).
Display shows 'OL'	Overload or open circuit	The measured value exceeds the range, or there is no connection. Check the circuit or range.

10. PACKAGE CONTENTS

The ALLmeter Pen Type Digital Multimeter package includes:

- ALLmeter Pen Type Digital Multimeter
- 1.5V AAA Battery
- Test Lead



Figure 10.1: The included test lead for various measurements.

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact ALLmeter customer service directly. Contact details are typically available on the manufacturer's official website or product packaging.

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Overview

6000counts is a pocket 3 1/2 true effective value, pen type intelligent multimeter. It does not need to turn the dial to select the function. According to the difference of input voltage/resistance, the instrument will automatically identify and measure. The machine has stable performance, high accuracy, high reliability, clear reading and overload protection function. Driven by a AAA 1.5V battery, the instrument uses a large screen LCD display with boost power supply. Even at the edge of a 0.8V low battery, the backlight and the ultra-high brightness of the flashlight can be guaranteed. The meter is portable and is extremely popular with users. This series of instruments can automatically identify DC voltage and AC voltage, resistance, without any switching, and can also manually switch to measure diodes. Non-contact voltage measurement and zero-fine line measurement are excellent tools and meters, and are ideal tools for laboratories, factories, radio lovers and families.

EN-01

[ALLmeter 6000 Counts Pen Type Intelligent Multimeter User Manual](#)

User manual for the ALLmeter 6000 Counts pen-type intelligent multimeter. Covers overview, safety precautions, general and technical characteristics, operation panel description, technical indicators for DCV/ACV, resistance, and diode measurements, troubleshooting, and warranty information.

PINLESS INDUCTIVE MOISTURE METER

PLEASE READ ALL OF THE INSTRUCTIONS BEFORE USING THE MOISTURE METER. This device is a non-invasive (pinless) instrument that can measure the moisture content of the wall, masonry, softwood and hardwood. It comes with 9 grades of wood density are available.

FEATURES

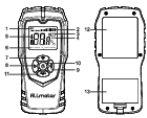
- * Display LCD display
- * Grades of softwood density
- * Alert value setting
- * Low battery indication
- * Non-invasive measurement

TECHNICAL SPECIFICATIONS

- * Softwood measurement range: 0-60%
- * Hardwood measurement range: 0-30%
- * Wall measurement range: 0-20%
- * Masonry measurement range: 0-33%
- * Moisture readings of WALL and MASONRY are relative values.

MEASURING ACCURACY

- SOFTWOOD and HARDWOOD: ±4%
- WALL and MASONRY: relative readings
- * Resolution: 0.1%
- * Operation temperature: 0°C-40°C
- * Storage temperature: -10°C-50°C
- * Operation humidity: 0-90%RH
- * Power supply: 3 x 1.5V AAA batteries
- * Auto power-off is 5 minutes without operation



EN-01

[Pinless Inductive Moisture Meter User Manual](#)

Instructions and specifications for the ALLmeter Pinless Inductive Moisture Meter, a non-invasive instrument for measuring moisture content in walls, masonry, softwood, and hardwood. Includes features, technical specifications, accuracy, operation, and wood density tables.