

Fluke FLUKE-15B+

Fluke 15B+ Digital Multimeter User Manual

Model: FLUKE-15B+

1. OVERVIEW

The Fluke 15B+ Digital Multimeter is a rugged, reliable, and accurate tool designed for various electrical applications. It offers essential measurement capabilities in a user-friendly design, suitable for both professional and serious DIY users.



Image: Front view of the Fluke 15B+ Digital Multimeter, showing the display, rotary dial, and input jacks.

Key Features:

- **CAT III 600V Safety Rating:** Ensures safety for electrical systems in residential and commercial settings.
- **AC/DC Voltage Measurement up to 1000V:** Measures both AC and DC voltage for a wide range of applications.
- **AC/DC Current Measurement up to 10A:** Accurately measures AC and DC current for diagnosing electrical issues.
- **Multiple Measurement Functions:** Includes Voltage, Resistance, Continuity, Diode, and Capacitance.
- **Input Terminal for AC/DC Current Measurements:** Dedicated input for current measurements up to 10A.

2. SAFETY INFORMATION

Always adhere to safety precautions when using any electrical testing equipment. Failure to do so may result in injury or damage to the meter or equipment under test.

- **Read Instructions:** Read and understand all instructions and safety information before use.
- **Proper Use:** Use the multimeter only as specified in this manual; otherwise, the protection provided by the multimeter might be impaired.
- **Rated Voltage:** Do not apply more than the rated voltage, as marked on the multimeter, between the terminals or between any terminal and earth ground.
- **Inspect Leads:** Inspect test leads for damaged insulation or exposed metal. Replace damaged leads.
- **Avoid Live Circuits:** Do not use the multimeter on live circuits with exposed conductors or bus bars.
- **Personal Protective Equipment (PPE):** Always wear appropriate personal protective equipment, such as safety glasses and insulated gloves, when working with electrical systems.
- **CAT III 600V:** This meter is rated for CAT III 600V. Do not use it in environments exceeding this rating.

3. WHAT'S IN THE BOX

Your Fluke 15B+ Digital Multimeter package includes the following items:

- Fluke 15B+ Digital Multimeter
- TL75 Test Leads
- 2 AA Batteries (pre-installed or included separately)



Image: The Fluke 15B+ Digital Multimeter shown alongside its red and black TL75 test leads and protective caps.

4. SETUP

4.1 Battery Installation

The Fluke 15B+ requires two AA batteries for operation. These are typically included with your purchase.

1. Ensure the multimeter is turned OFF.
2. Locate the battery compartment cover on the back of the multimeter.
3. Use a screwdriver to loosen the screw(s) securing the cover.
4. Remove the cover and insert the two AA batteries, observing the correct polarity (+/-) as indicated inside the compartment.
5. Replace the battery compartment cover and tighten the screw(s).

4.2 Connecting Test Leads

Proper connection of test leads is crucial for accurate and safe measurements.

1. Insert the **black** test lead into the **COM** (common) input jack.
2. For most voltage, resistance, continuity, diode, and capacitance measurements, insert the **red** test lead into the **VΩHzCAP** input jack.
3. For current measurements (mA/A), insert the **red** test lead into the appropriate current input jack (e.g., **mA/A** or **10A FUSED**), depending on the expected current level. Refer to the multimeter's faceplate for

specific jack labels.

5. OPERATING INSTRUCTIONS

5.1 General Operation

1. **Power On/Off:** Rotate the central dial from the OFF position to any desired measurement function to turn the meter on. Rotate back to OFF to power off.
2. **Function Selection:** Use the central rotary dial to select the desired measurement function (e.g., V~ for AC Voltage, V- for DC Voltage, Ω for Resistance).
3. **Range Button:** Press the **RANGE** button to manually select a measurement range if auto-ranging is not desired. Press again to cycle through ranges or hold to return to auto-ranging.
4. **HOLD Button:** Press the **HOLD** button to freeze the current reading on the display. Press again to release.
5. **Backlight Button:** Press the backlight button (sun icon) to illuminate the display in low-light conditions.



Image: A gloved hand holding the Fluke 15B+ Digital Multimeter, demonstrating its ergonomic design.

5.2 Measurement Functions

5.2.1 AC/DC Voltage Measurement

1. Turn the rotary dial to **V~** (AC Voltage) or **V-** (DC Voltage).
2. Connect the black test lead to the **COM** terminal and the red test lead to the **VΩHzCAP** terminal.
3. Carefully touch the test probes to the points where voltage is to be measured (in parallel with the circuit).
4. Read the voltage value on the display.

5.2.2 AC/DC Current Measurement

Caution: Always ensure the circuit is de-energized before connecting the multimeter in series for current measurements. Incorrect connection can blow the fuse or damage the meter.

1. Turn the rotary dial to **A~** (AC Current) or **A-** (DC Current).
2. Connect the black test lead to the COM terminal.
3. For currents up to 400mA, connect the red test lead to the **mA/A** terminal. For currents up to 10A, connect the red test lead to the **10A FUSED** terminal.
4. Open the circuit where current is to be measured and connect the multimeter in series.
5. Re-energize the circuit and read the current value on the display.

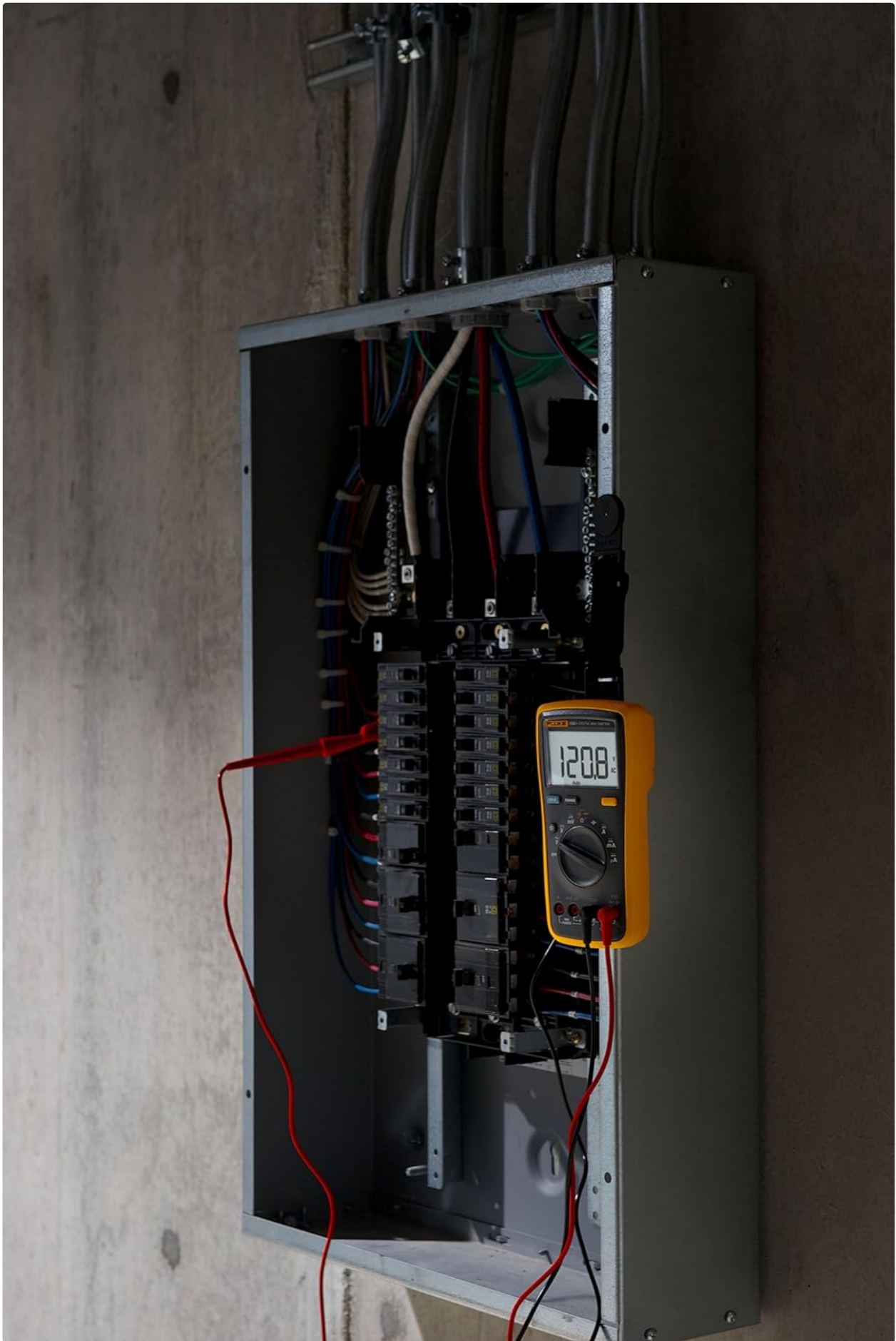


Image: The Fluke 15B+ Digital Multimeter connected to an electrical panel, displaying a voltage reading.

5.2.3 Resistance Measurement

1. Turn the rotary dial to Ω (Resistance).

2. Connect the black test lead to COM and the red test lead to VΩHzCAP.
3. Ensure the component or circuit under test is de-energized.
4. Touch the test probes across the component or circuit.
5. Read the resistance value on the display.

5.2.4 Continuity Test

1. Turn the rotary dial to the **Continuity** symbol (looks like a sound wave).
2. Connect the black test lead to COM and the red test lead to VΩHzCAP.
3. Ensure the circuit under test is de-energized.
4. Touch the test probes across the points to be tested.
5. The meter will beep if a continuous path (low resistance) is detected. The display will show the resistance value.

5.2.5 Diode Test

1. Turn the rotary dial to the **Diode** symbol (looks like an arrow with a bar).
2. Connect the black test lead to COM and the red test lead to VΩHzCAP.
3. Ensure the diode is disconnected from the circuit.
4. Touch the red probe to the anode and the black probe to the cathode. A forward voltage drop (e.g., 0.5V to 0.8V for silicon diodes) should be displayed.
5. Reverse the probes. The display should show OL (Open Loop) for a good diode.

5.2.6 Capacitance Measurement

1. Turn the rotary dial to the **Capacitance** symbol (looks like two parallel lines).
2. Connect the black test lead to COM and the red test lead to VΩHzCAP.
3. Ensure the capacitor is fully discharged before testing.
4. Touch the test probes across the capacitor terminals.
5. Read the capacitance value on the display.

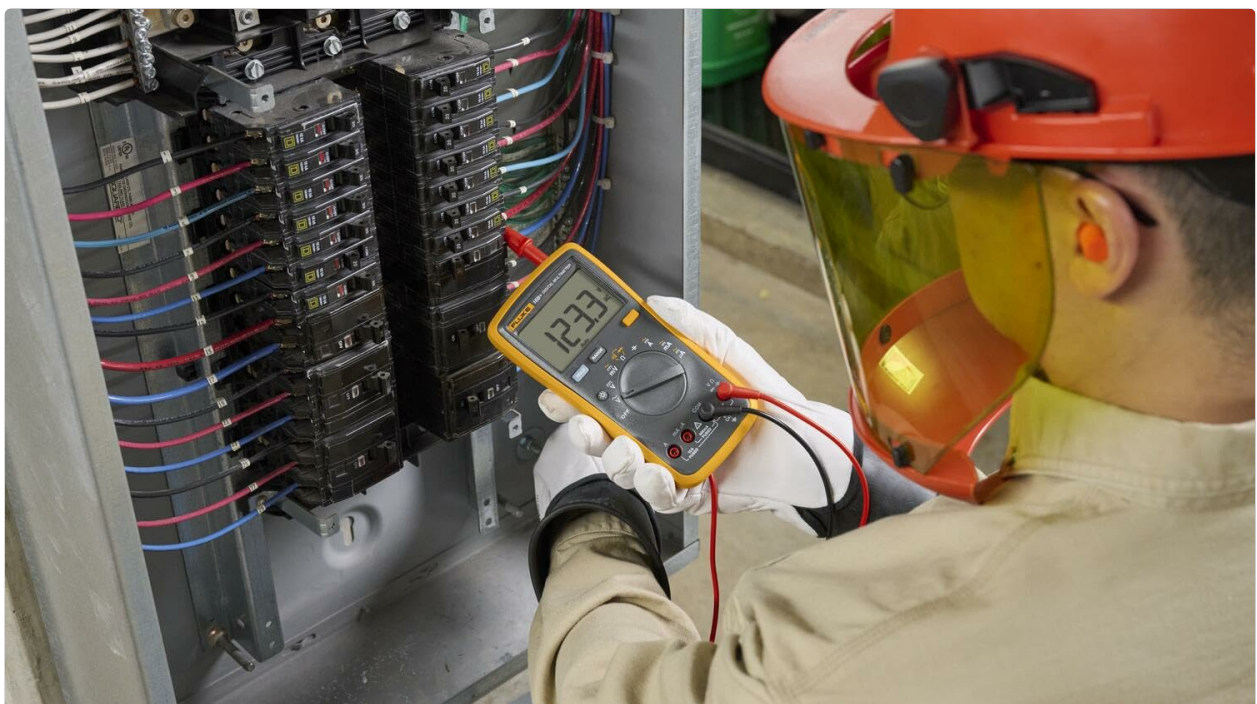


Image: A technician wearing safety gear, using the Fluke 15B+ Digital Multimeter to take a reading inside an electrical panel.

6. MAINTENANCE

6.1 Cleaning

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

6.2 Battery Replacement

Replace the batteries when the low battery indicator appears on the display. Refer to Section 4.1 for battery installation instructions.

6.3 Fuse Replacement

If the current measurement function stops working, the fuse may need replacement. Always replace with a fuse of the specified type and rating to maintain safety and performance.

1. Ensure the multimeter is turned OFF and test leads are disconnected.
2. Open the battery compartment cover as described in Section 4.1.
3. Carefully remove the old fuse.
4. Install a new fuse of the correct type and rating (refer to the specifications section or the meter's internal markings).
5. Replace the battery compartment cover and tighten the screw(s).

7. TROUBLESHOOTING

- **No Display:** Check battery installation and charge. Replace batteries if necessary.
- **Incorrect Readings:** Ensure test leads are correctly connected to the appropriate input jacks for the selected function. Verify the rotary dial is set to the correct measurement function. Check for damaged test leads.
- **Current Measurement Not Working:** Check the fuse. Replace if blown (refer to Section 6.3). Ensure the red test lead is in the correct current input jack.
- **"OL" Display:** This typically means "Overload" or "Open Loop." For resistance, it indicates an open circuit. For diode test, it indicates a reverse-biased good diode. For voltage/current, it means the measured value exceeds the selected range (if not in auto-range) or the meter's maximum capability.

8. SPECIFICATIONS

Specification	Value
Model Number	FLUKE-15B+
Safety Rating	CAT III 600V
AC/DC Voltage	Up to 1000V
AC/DC Current	Up to 10A
Resistance	Yes
Continuity	Yes

Specification	Value
Diode Test	Yes
Capacitance	Yes
Power Source	2 AA batteries (included)
Product Dimensions	8.46 x 2.76 x 5.91 inches
Item Weight	1.01 Pounds (460 Grams)
Manufacturer	Fluke Corporation

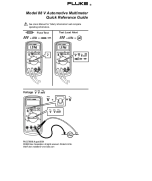
9. WARRANTY AND SUPPORT

The Fluke 15B+ Digital Multimeter is manufactured by Fluke Corporation. For detailed warranty information, technical support, or service, please refer to the official Fluke website or contact their customer service directly. Always ensure you purchase from authorized distributors to guarantee product authenticity and valid warranty coverage.

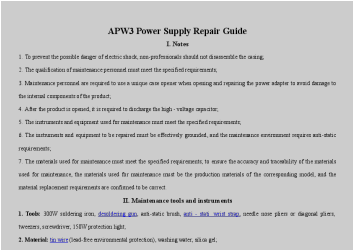
For additional resources and product information, visit the [Fluke Store on Amazon](#).

Related Documents - FLUKE-15B+

 Fluke 106/107 Palmsized Digital Multimeters Fluke 106 and 107 put measurements in the palm of your hand. FLUKE Technical Data	Fluke 106/107 Palmsized Digital Multimeters: Technical Specifications and Features Detailed technical specifications, product highlights, and general information for the Fluke 106 and 107 palmsized digital multimeters. Learn about their electrical specifications, accuracy, features, and included equipment.
 116 True-rms Multimeter FLUKE User Manual	Fluke 116 True-rms Multimeter User Manual User manual for the Fluke 116 True-rms Multimeter, covering features, operation, safety information, and specifications.
 Fluke 110 True-RMS Multimeter FLUKE	Fluke 110 True-RMS Multimeter: Technical Specifications and Features Detailed specifications and features of the Fluke 110 compact True-RMS multimeter, designed for precise electrical installation and troubleshooting. Includes accuracy, safety ratings, and included accessories.

	Fluke 323/324/325 Clamp Meter User Manual Comprehensive user manual for Fluke 323, 324, and 325 clamp meters, detailing features, safety precautions, specifications, and operational guidance for accurate electrical measurements.
	Fluke 323/324/325 Clamp Meter User Manual - Specifications & Safety Comprehensive user manual for the Fluke 323, 324, and 325 Clamp Meters. Includes safety information, electrical and mechanical specifications, and operating instructions.
	Fluke 88 V Automotive Multimeter Quick Reference Guide A quick reference guide for the Fluke 88 V Automotive Multimeter, detailing its functions and usage for automotive electrical testing, including voltage, current, resistance, temperature, and specialized automotive tests.

Documents - Fluke – FLUKE-15B



[Antminer APW3 Power Supply Repair Guide](#)

A comprehensive repair guide for the Antminer APW3 Power Supply, covering maintenance, troubleshooting, and technical specifications.

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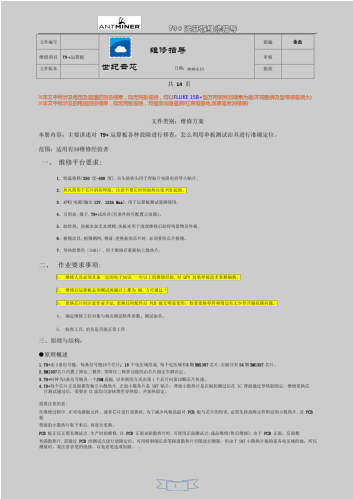
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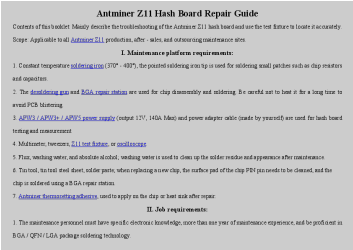
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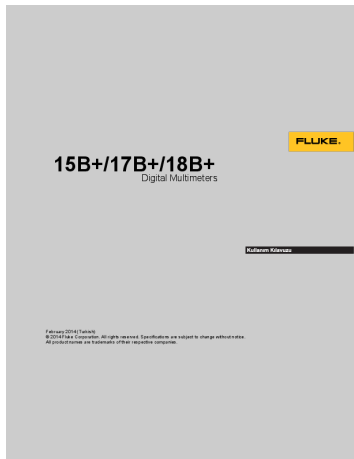
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Antminer T9 Repair Guide Manual ZEUSMINING Hash board zeusbtc china manuals repair guide ||| T9 T9 2018.6.15 14 FLUKE 15B , T9 S9 1350 -400 2 PCB 3APW3 12V133A Max 4T9 5 6 73461 1 QFN 2 OK 3 PCB 4 5 1.T9 31818 3 BM1387 54 BM1387 2. BM1387 3.T9 325M 1 18 4.T9 SMT IC IC PCB PCB PCB PCB PCB PCB SMT 1 1 T9 T9 1 ... lang:en score:41 filesize: 6.01 M page_count: 14 document date: 2020-11-22



[pdf] User Manual Troubleshooting Guide Guide

Antminer Z11 Hash Board Repair Guide ZEUS MINING Manual hash board repair tutorial zeusbtc EN guide user manuals Zeus Mining ||| Antminer Z11 Hash Board Repair Guide Contents of this booklet: Mainly describe the troubleshooting of the Antminer Z11 hash board and use the test fixture to locate it accurately. Scope: Applicable to all Antminer Z11 production, after - sales, and outsourcing maintenance sites. I. Maintenance platform requirements lang:en score:40 filesize: 1.14 M page_count: 19 document date: 2022-05-09

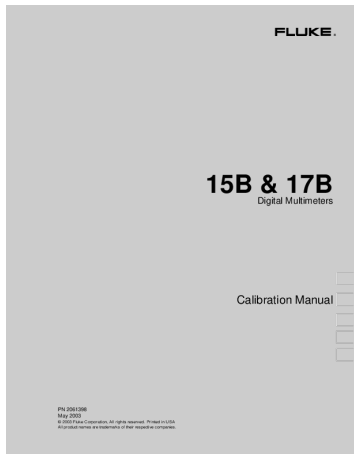


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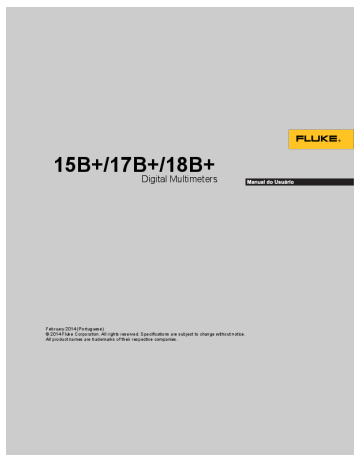


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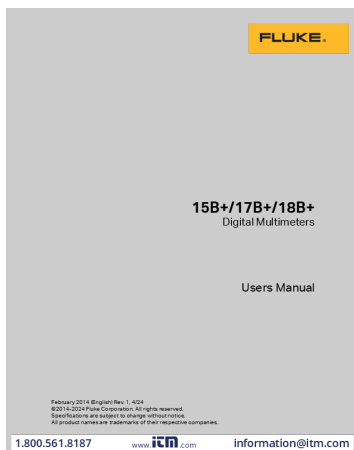


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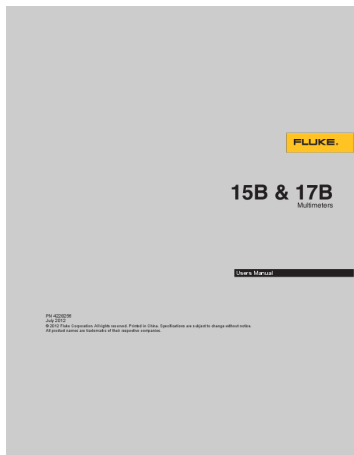


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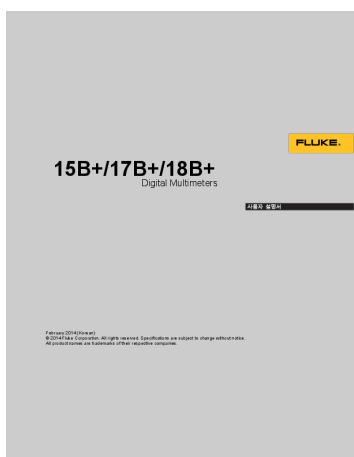


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TECHNICAL DATA Fluke 15B /17B Digital Multimeters Fluke quality and reliability within your reach ... is intended for use in business environments and is not to be used in homes. Ordering Information **FLUKE-15B** Digital Multimeter **FLUKE-17B** Digital Multimeter Included Test leads with caps, thermocou...

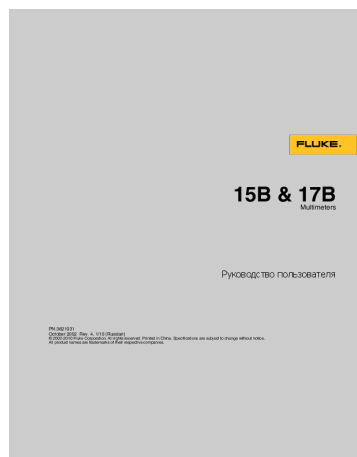
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Fluke 15B+/17B+ Multimetry cyfrowe: Specyfikacje techniczne i funkcje

Szczegółowe specyfikacje techniczne, funkcje i parametry ogólne dla multimetrów cyfrowych Fluke 15B+ i 17B+, zaprojektowanych do profesjonalnych prac elektrycznych.

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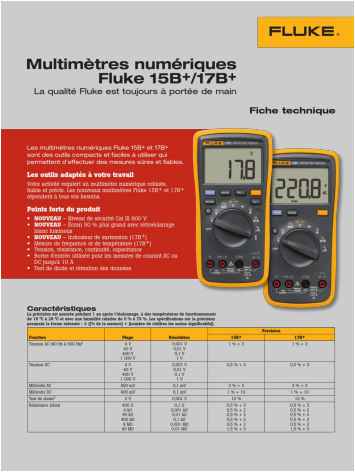
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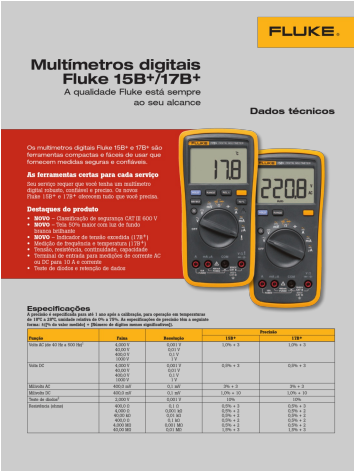


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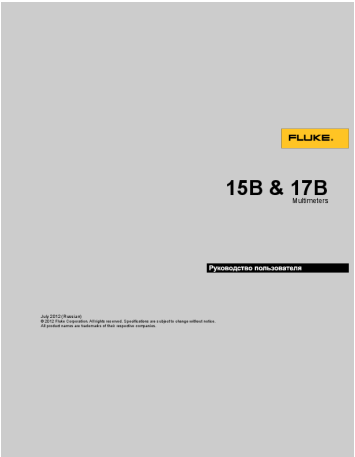


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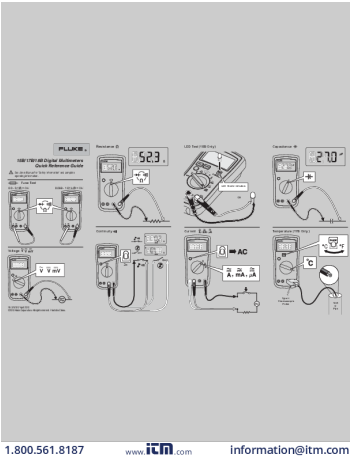


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[Fluke 15B+/17B+ Digital Multimeters - Technical Specifications and Overview](#)

Detailed technical specifications, features, and overview of the Fluke 15B+ and 17B+ digital multimeters, designed for electricians and DIY users requiring accurate and reliable measurements.

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Fluke 15B+/17B+ Digitalmultimeter Technische Daten

Detaillierte technische Spezifikationen, Merkmale und allgemeine Informationen für die Fluke 15B+ und 17B+ Digitalmultimeter, einschließlich Messungen, Genauigkeit, Betriebsbedingungen und Bestellinformationen.

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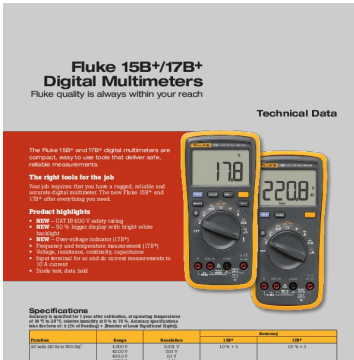


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Fluke 15B /17B Digital Multimeters Fluke quality is always within your reach The Fluke 15B and 17B ... C; non-condensing 10 C 80 RH at 10 C to 30 C; 70 RH at 30 C to 40 C Ordering information **FLUKE-15B** Digital Multimeter **FLUKE-17B** Digital Multimeter Included Test leads with caps, thermoco...

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lang:id score:29 filesize: 1.22 M page_count: 28 document date: 2014-03-04

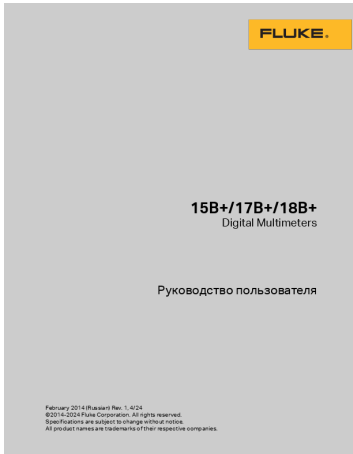


[pdf] User Manual Datasheet Warranty Catalog

Datasheet FLUKE 15B 17BFLUKE 17B Communica Part No 17BD4251478200archive munica co za Content Catalog Documents D4251478200 |||

The new Fluke 17B and 15B digital multimeters Now within your reach If you always wanted a Fluke meter, discover the new Fluke 17B and 15B Digital Multimeters. Designed and manufactured to Fluke s high standards of ruggedness, reliability and accuracy. The new Fluke 17B/15B meters include: V a...

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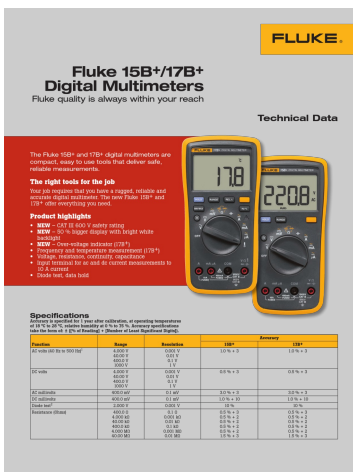
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FLUKE

TECHNICAL DATA

Fluke 15B+/17B+ Digital Multimeters

Fluke quality and reliability within your reach

The Fluke 15B+ and 17B+ digital multimeters are compact, reliable tools for electricians and DIT enthusiasts who value quality, accuracy, and safety. These easy-to-use digital multimeters measure AC/DC voltage up to 1000 V, AC/DC current up to 10 A, and feature resistance, continuity, diode, and capacitance testing capabilities, ensuring accurate readings for a wide range of electrical applications. The rugged design allows you to tackle even more applications with the addition of frequency and temperature measurement capabilities.

With CAT III 600 V ratings, and overload protection (17B+), these meters give you confidence in your safety, and their large backlit displays, small size, and ruggedness make them ideal for on-the-go electrical system testing.

Product highlights

- CAT III 600 V safety rating
- Large, easy-to-read display with bright white backlight
- Over-voltage indicator (17B+)
- Frequency and temperature measurement (17B+)
- Voltage, resistance, continuity, capacitance
- Input terminal for ac and dc current measurements to 10 A current
- Double test, data hold

AC/DC VOLTAGE UP TO 1000 V

Suitable for a wide range of applications with a CAT III 600 V safety rating, and a maximum voltage of 1000 V.

AC/DC CURRENT MEASUREMENT UP TO 10 A

Measure AC and DC current up to 10 A for diagnosing electrical problems such as overloading, short circuits, and faulty wiring.

ESSENTIAL MEASUREMENT FUNCTIONS

Troubleshoot electrical issues in a wide range of systems with voltage, resistance, continuity, capacitance, frequency (17B+), and temperature (17B+) functions.



[pdf] Troubleshooting Guide Datasheet

Fluke 15B 17B Digital Multimeters DatasheetFluke Multimeter Average Responding Kingsway

InstrumentsFluke and Datasheet 2024cdn shopify s files 1 2663 3750 2024 v 1729524851 |||

TECHNICAL DATA Fluke 15B /17B Digital Multimeters Fluke quality and reliability

within your reach ... is intended for use in business environments and is not to be

used in homes. Ordering Information **FLUKE-15B** Digital Multimeter FLUKE-17B

Digital Multimeter Included Test leads with caps, thermocou...

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FLUKE

Fluke 15B+/17B+ Digital Multimeters

Fluke quality is always within your reach

Technical Data

The Fluke 15B+ and 17B+ digital multimeters are compact, easy-to-use tools that deliver safe, reliable measurements.

The right tools for the job

Meet all requirements and your need for rugged, reliable and accurate digital multimeters. The new Fluke 15B+ and 17B+ offer everything you need.

Product highlights

- NEW - CAT III 600 V safety rating
- NEW - 10" display module with bright white backlight
- NEW - Over-voltage indicator (17B+)
- Frequency and temperature measurement (17B+)
- Voltage, resistance, continuity, capacitance
- Input terminal for ac and dc current measurements to 10 A current
- Double test, data hold



Specifications

Accuracy specified for 100% duty cycle, at operating temperature of 0 °C to 40 °C, unless specified at 15 °C to 35 °C. Accuracy specifications are the sum of 1% of Reading + Fluke's stated resolution.

Parameter	Range	Resolution	15B+ Accuracy	17B+ Accuracy
AC voltage	0.1 to 1000 V	0.001 V	±1.5% ± 1	±1.5% ± 1
DC voltage	0.001 to 1000 V	0.001 V	±1.5% ± 1	±1.5% ± 1
AC current	0.001 to 10 A	0.001 A	±1.5% ± 1	±1.5% ± 1
DC current	0.001 to 10 A	0.001 A	±1.5% ± 1	±1.5% ± 1
Resistance	0.001 to 1000 Ω	0.001 Ω	±1.5% ± 1	±1.5% ± 1
Capacitance	0.001 to 1000 nF	0.001 nF	±1.5% ± 1	±1.5% ± 1
Frequency	0.001 to 1000 Hz	0.001 Hz	±1.5% ± 1	±1.5% ± 1
Temperature	0.001 to 1000 °C	0.001 °C	±1.5% ± 1	±1.5% ± 1

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Multimeters Ordering information **FLUKE-15B** Digital Multimeter FLUKE-17B Digital

Multimeter Included Test leads with caps, thermoco...

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