FLUKE 117 DIGITAL MULTIMETER



Fluke 117 Digital Multimeter User's Manual

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Fluke 117 Digital Multimeter



March 2020

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Introduction

The Fluke Model 110, Model 113, Model 114, Model 115, and Model 117 (the Meter or Product) are battery-powered, true-rms multimeters with a 6000-count display and a bar graph. This manual applies to all models. All figures show Model 117 unless indicated.

How to Contact Fluke

To contact Fluke, call one of the following telephone numbers:

Technical Support USA: 1-800-44-FLUKE (1-800-443-5853)

• Calibration/Repair USA: 1-888-99-FLUKE (1-888-993-5853)

• Canada: 1-800-36-FLUKE (1-800-363-5853)

Europe: +31 402-675-200Japan: +81-3-6714-3114

• Singapore: +65-6799-5566

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• **Brazil:** +55-11-3530-8901

• Anywhere in the world: +1-425-446-5500

- Or, visit Fluke's website at <u>www.fluke.com</u>.
- To register your product, visit http://register.fluke.com.
- To view, print, or download the latest manual supplement, visit http://us.fluke.com/usen/support/manuals. To request a printed manual, visit www.fluke.com/productinfo.

Safety Information

• For Product safety information, see the printed 110/113/114/115/117 Safety Information included with the Product or located on the Fluke website.

Unsafe Voltage

• To alert you to the presence of a potentially hazardous voltage, the Z symbol is displayed when the Meter measures a voltage ≥30 V or a voltage overload (OL) condition. When making frequency measurements >1 kHz, the Z symbol is unspecified.

Test Lead Alert

Warning Personal injury or damage to the Meter can occur if you attempt to make a measurement with a lead in an incorrect terminal.

• To remind you to check that the test leads are in the correct terminals, LEAd is briefly displayed and an audible beep sounds when you move the rotary switch to or from any A (Amps) position.

Product Familiarization

The manual explains features for multiple models. Because models have different features, not all of the information in the manual may apply to your Meter. Use Table 1 to identify the features of your Meter.

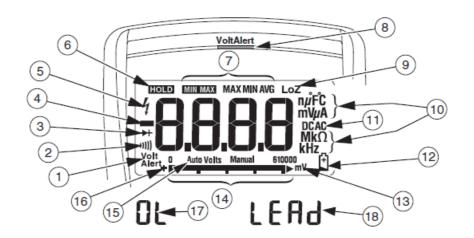
Features

Table 1 is a list of the features for each Meter.

Switch P osition	Measurement Function		113	114	115	117
OFF	The Meter is turned off.	•	•	•	•	•
AUTO-V LoZ	Automatically selects ac or dc volts based on the sensed input with a low impedance input.			•		•
$\stackrel{\sim}{ m V}^{ m Hz}$	AC voltage from 0.06 V to 600 V. Frequency from 5 Hz to 100 kHz.	•		•	•	•
v	DC voltage from 0.001 V to 600 V.	•		•	•	•
m _V	AC voltage from 6.0 to 600 mV, DC-coupled. DC voltage from 0.1 to 600 mV.	•		•	•	•
Ω	Ohms from 0.1 Ù to 40 MÙ.	•	•	•	•	•
11)))	Continuity beeper turns on at <20 Ù and turns off at >250 Ù.	•	•	•	•	•
ⓒ CHEK	LoZ low impedance measurement function to simultaneously t est for voltage or continuity.		•			
→	Diode Test. Displays OL above 2.0 V.		•		•	•
- -	Farads from 1 nF to 9999 mF.		•		•	•
$\overline{\widetilde{A}}_{Hz}$	AC current from 0.1 A to 10 A (>10 to 20 A, 30 seconds on, 10 minutes off). >10.00 A display flashes. >20 A, OL is displayed. DC-coupled. Frequency from 45 Hz to 5 kHz.				•	•
Ä	DC current from 0.001 A to 10 A (>10 A to 20 A, 30 seconds o n, 10 minutes off). >10.00 A display flashes. >20 A, OL is disp layed.				•	•
Volt Aler t	Non-contact sensing of ac voltage.					•

Note: All ac functions and Auto-V LoZ are true-rms. AC voltage is ac-coupled. Auto-V LoZ, AC mV and AC amps are dc-coupled.

Table 2 is a list of the features for each display.

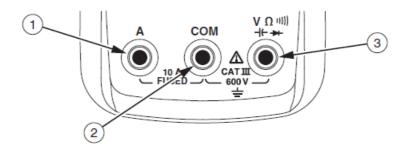


No.	Symbol	Meaning	Model
1	Volt Alert	The Meter is in the VoltAlert™ non-contact voltage detect mode.	117
2	11))	The Meter function is set to Continuity.	110, 113, 114, 115, 117
3	→-	The Meter function is set to Diode Test	113, 115, 117
4	-	Input is a negative value.	110, 113, 114, 115, 117
(5)	4		110, 113, 114, 115, 117
6	HOLD	Display hold enabled. Display freezes present reading.	110, 113, 114, 115, 117
7	MIN MAX MAX MIN AVG	MIN MAX AVG mode enabled. Maximum, minimum, average or present reading displays	110, 113, 114, 115, 117
8	(Red LED)	Voltage presence through the non-contact VoltAlert sensor	117
9	LoZ	The Meter is measuring voltage or capacitance with a low input impedance.	113,114, 115, 117
10	nμF mV μA MkΩ kHz Measurement units.		110, 114, 115, 117
(1)	DC AC Direct current or alternating current		110, 113, 114, 115, 117
12	∄ Battery low warning.		110, 113, 114, 115, 117
13	610000 mV Indicates the Meter's range selection.		110, 114, 115, 117
14)	(Bar graph) Analog display.		110, 113, 114, 115, 117

No.	Symbol	Meaning	Model
	Auto Volts	The Meter is in the Auto Volts function.	114, 117
	Autoranging. The Meter selects the range for best resolun.		110, 113, 114, 115, 117
	Manual	Manual ranging. User sets the Meter's range.	110, 113, 114, 115, 117
	+ Bar graph polarity		110, 113, 114, 115, 117
	0L W The input is too large for the selected range.		110, 113, 114, 115, 117
		W Test lead alert. Briefly displayed whenever the Meter's function switch is rotated to or from any A position.	115, 117

Terminals

Table 3 is a list of terminals on the Meter.



Description	Model
Input terminal for measuring ac and dc current to 10 A.	115, 117
Common (return) terminal for all measurements.	110, 113, 114, 115, 117
Input terminal for measuring voltage, continuity, resistance, capacitance, frequen cy and testing diodes.	110, 113, 114, 115, 117

Error Messages

Table 4 is a list of error messages for the Meter.

Table 4. Error Messages

Error Messages				
bAtt	Battery must be replaced before the Meter will operate.			
CAL Err	Calibration required. Meter calibration is required before the Meter will operate.			
EEPr Err	Internal error. The Meter must be repaired before it will operate.			
F11- Err	Internal error. The Meter must be repaired before it will operate.			

Battery Saver™ (Sleep Mode)

If the Meter is ON, but inactive and not connected to voltage for more than 20 minutes, the display goes blank to save battery life. To use the Meter, press any button or turn the rotary switch. To disable the Sleep mode, see Power-Up Options. The Sleep mode is always disabled in the MIN MAX AVG mode.

MIN MAX AVG Recording Mode

The MIN MAX AVG recording mode captures the minimum and maximum input values (ignoring overloads), and calculates a running average of all readings. When the Meter detects a new high or low, the Meter beeps.

Note Autoranging and Battery Saver™ are disabled in MIN MAX AVG mode.

- 1. Select the measurement function and range.
- 2. Push to enter MIN MAX AVG mode. MIN MAX show on the display. The highest reading detected since entering MIN MAX AVG shows on the display.
- 3. Push MIN MAX to step through the low (MIN), average (AVG), and present readings.
- 4. To pause MIN MAX AVG recording without erasing stored values, push HOLD (K shows on the

display.)

- 5. To resume MIN MAX AVG recording, push HOLD again.
- 6. To exit and erase stored readings, push for at least one second, or turn the rotary switch.

Display HOLD

Warning To avoid electric shock, when Display HOLD is activated, be aware that the display will not change when you apply a different voltage.

In the Display HOLD mode, the Meter freezes the display.

- Push HOLD to activate Display HOLD. (HOLD shows on the display.)
- To exit and return to normal operation, push HOLD or turn the rotary switch.

Backlight

- Push to toggle the backlight on and off.
- The backlight automatically turns off after 40 seconds. To disable backlight auto-off, see Power-Up Options.

Manual and Autoranging

The Meter has both Manual and Autorange modes. The Meter defaults to Autorange. To toggle between Manual and Autorange, push Fange for 1 second.

- In the Autorange mode, the Meter selects the range with the best resolution.
- In the Manual Range mode, you override Autorange and select the range yourself. Push enter Manual range. (Manual shows on the display.) Push to increment the range. After the highest range, the Meter wraps to the lowest range.

Note You cannot manually change the range in the MIN MAX AVG or Display HOLD modes. If you push while in MIN MAX AVG or Display Hold, the Meter beeps twice, indicating an invalid operation and the range does not change.

Power-Up Options

• To select a Power-Up Option, hold down the button indicated in Table 5 while turning the Meter from OFF to any other function. Power-Up Options are canceled when you turn off the Meter and when sleep mode is activated.

Table 5. Power-Up Options

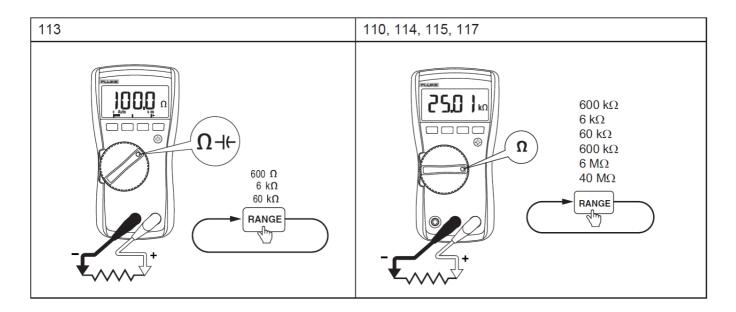
Button	Power-Up Options				
HOLD	Turns on all display segments until button is released.				
MIN MAX	Disables beeper. bEEP shows when enabled.				
RANGE	113 - Turns on all display segments until button is released.				
MANGE	115, 117 – Enables low impedance capacitance measurements. LCAP shows when enabled.				
	Disables Battery Saver™ (Sleep mode). PoFF shows when enabled.				
③	Disables auto backlight off. LoFF is displayed when enabled.				

Making Basic Measurements

When connecting the test leads to the circuit or device, connect the common (COM) test lead before connecting the live lead; when removing the test leads, remove the live lead before removing the common test lead.

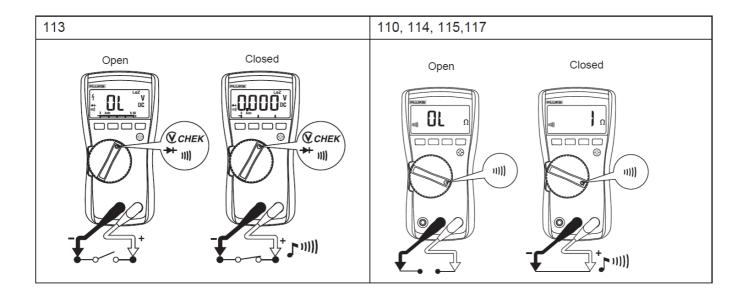
Warning To avoid electric shock, injury, or damage to the Meter, disconnect circuit power and discharge all high-voltage capacitors before testing resistance, continuity, diodes, or capacitance.

Measuring Resistance

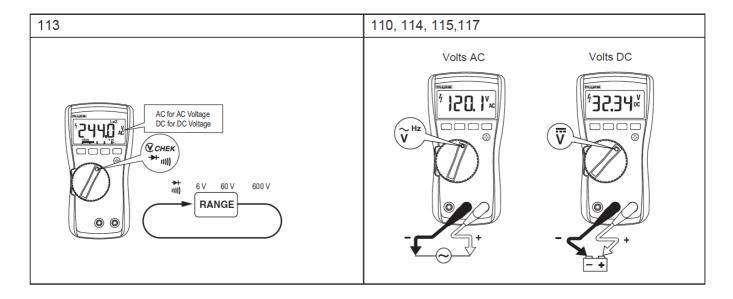


Testing for Continuity

• **Note** Use the continuity function as a fast, convenient method to check for opens and shorts. For maximum accuracy in making resistance measurements, use the Meter's resistance (e) function.



Measuring AC and DC Voltage

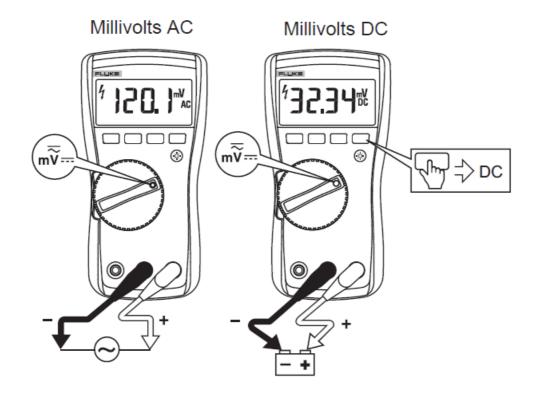


Using Auto Volts Selection (114, 117)

- With the function switch in the **AUTO-V LoZ** position, the Meter automatically selects a dc or ac voltage measurement based on the input applied between the V or + and COM jacks.
- This function also sets the Meter's input impedance to approximately 3 k Ω to reduce the possibility of false readings due to ghost voltages.

Measuring AC and DC Millivolts (110, 114, 115, 117)

• With the function switch in the $\stackrel{mV}{=}$ position, the Meter measures ac plus dc millivolts. Press to set the Meter to dc millivolts.



Measuring AC or DC Current (115, 117)

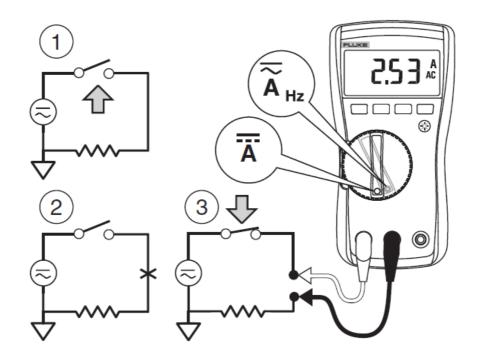
△△ Warning

To avoid personal injury or damage to the Meter:

- Never attempt to make an in-circuit current measurement when the open-circuit potential to earth is >600 V.
- Check the Meter's fuse before testing. See Testing the Fuse (115, 117).
- Use the proper terminals, switch position, and range for your measurement.
- Never place the probes in parallel with a circuit or component when the leads are plugged into the A (Amps) terminals.

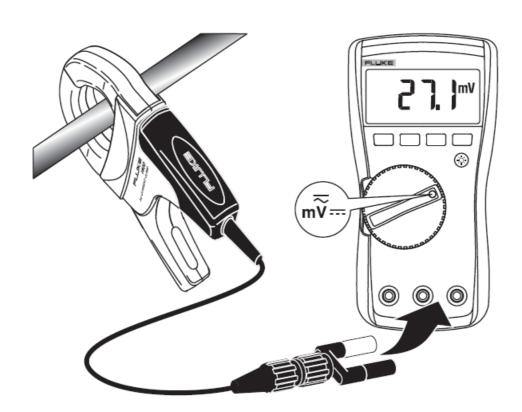
To measure current:

- 1. Turn circuit power off.
- 2. Break the circuit
- 3. Insert the Meter in series with the circuit, and then turn circuit power on.

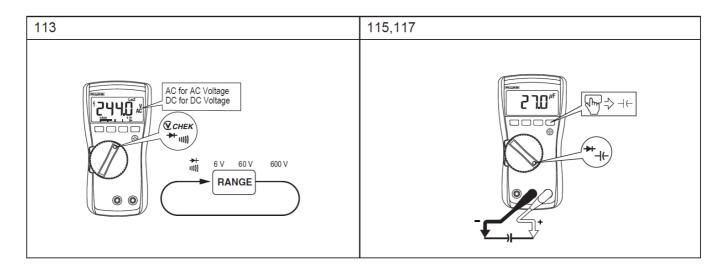


Measuring Current above 10 Amps (110, 114, 115, 117)

The millivolt and voltage function of the Meter can be used with an optional mV/A output Current Probe to
measure currents that exceed the rating of the Meter. Make sure the Meter has the correct function selected,
AC or DC, for your current probe. Refer to a Fluke catalog or contact your local Fluke representative for
compatible current clamps.



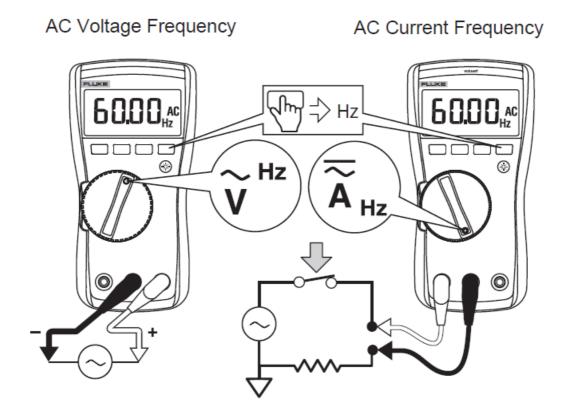
Measuring Capacitance (113, 115, 117)



Measuring Frequency (115, 117)

Warning To avoid electrical shock, disregard the bar graph for frequencies >1 kHz. If the frequency of the measured signal is >1 kHz, the bar graph and Z are unspecified.

- The Meter measures the frequency of a signal by counting the number of times the signal crosses a trigger level each second. The trigger level is 0 V, 0 A for all ranges.
- Press to turn on or turn off the frequency measurement function on and off. Frequency works with ac functions only.
- In frequency, the bar graph and range annunciator indicate the ac voltage or current present. Select progressively lower ranges using manual ranging for a stable reading.

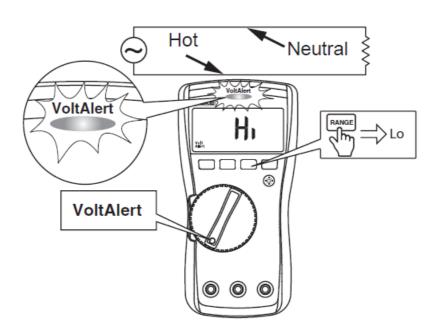


To detect the presence of ac voltage, place the top of the Meter close to a conductor. The Meter gives an audible as well as visual indication when voltage is detected. The sensitivity settings are:

- 1. Lo: use on flush mounted wall sockets, power strips, flush mounted industrial outlets and various power cords.
- 2. Hi: for ac voltage detection on other styles of recessed power connectors or sockets where the actual ac voltage is recessed within the connector itself.

The VoltAlert detector works in bare wire applications with voltages as low as 24 V in the Hi setting.

Warning If there is no indication, voltage could still be present. Do not rely on the VoltAlert detector with shielded wire. Operation may be effected by differences in socket design, insulation thickness and type.



Making Low Impedance Capacitance Measurements (115, 117)

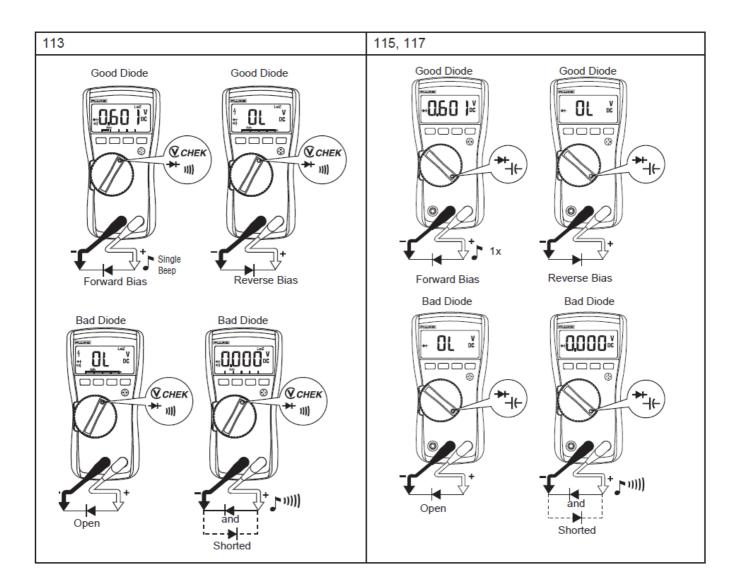
For making capacitance measurements on cables with ghost voltage:

- 1. Hold RANGE as you turn on the Meter to enable the low-input impedance Capacitance mode.
- 2. Wait until LCAP shows on the display.

In this mode, capacitance measurements will have a lower accuracy and lower dynamic range.

Note This setting is not saved when the Meter is turned off or goes into sleep mode.

Testing Diodes (113, 115, 117)



Using the Bargraph

- The bar graph is like the needle on an analog meter. It has an overload indicator () to the right and a polarity indicator () to the left.
- Because the bar graph is much faster than the digital display, the bar graph is useful for making peak and null adjustments.
- The bar graph is disabled when measuring capacitance. In frequency, the bar graph and range annunciator indicates the underlying voltage or current up to 1 kHz.
- The number of segments indicates the measured value and is relative to the full-scale value of the selected range.
- In the 60 V range, for example (see below), the major divisions on the scale represent 0, 15, 30, 45, and 60 V. An input of -30 V turns on the negative sign and the segments up to the middle of the scale.



Maintenance

Maintenance of the Meter consists of battery and fuse replacement, as well as case cleaning.

Testing the Fuse (115, 117)

Test fuse as shown in Figure 1.

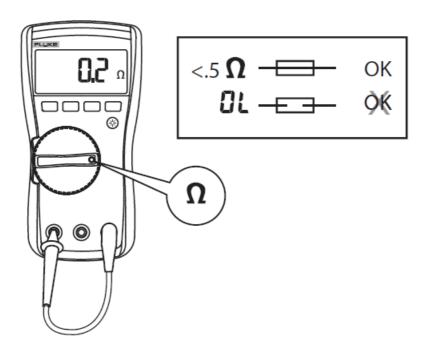


Figure 1. Test the Fuse

Figure 1. Test the Fuse

Replacing the Battery and Fuse

Warning To avoid shock, injury, or damage to the Meter:

- Remove test leads from the Meter before opening the case or battery door.
- Use ONLY a fuse with the amperage, interrupt voltage, and speed ratings specified.

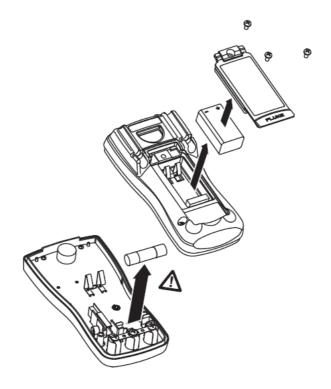


Figure 2. Disassembly

See Figure 2 for disassembly.

To remove the battery door for battery replacement:

- Remove the test leads from the Meter.
- · Remove the battery door screw.
- Use the finger recess to lift the door slightly.
- Lift the door straight up to separate it from the case.
- The battery fits inside the battery door, which is then inserted into the case, bottom edge first, until it is fully seated. Do not attempt to install the battery directly into the case.
- Install and tighten battery door screw.

To open the case for fuse replacement:

- Remove the test leads from the Meter.
- · Remove the Meter from its holster.
- Remove two screws from the case bottom.
- Separate the case bottom from the case top.
- Remove the fuse from its holder and replace it with an 11 A, 1000 V, FAST fuse having a minimum interrupt rating of 17,000 A. Use only Fluke PN 803293.
- To re-assemble the Meter, first attach the case bottom to the case top, then install the two screws. Finally, insert the Meter into its holster.

Cleaning

• Wipe the case with a damp cloth and mild detergent. Dirt or moisture in the terminals can affect readings.

Specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 90 %. Extended specifications are available at www.Fluke.com.

- W Fuse for A input (115 & 117 only)......11 A, 1000 V, IR 17 kA

Display

Temperature

- Operating-10 °C to 50 °C
- Storage-40 °C to 60 °C

Altitude

- Battery.....IEC 6LR61

Battery Life

- 113...... Alkaline: 300 hours typical, without backlight
- SafetyIEC 61010-1: Pollution Degree 2

IEC 61010-2-033

- 113......Measurement CAT IV 600 V
- 110, 114......Measurement CAT III 600 V

Electromagnetic Compatibility (EMC)

• International......IEC 61326-1: Portable Electromagnetic Environment

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.

Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.

Table 6. Accuracy Specifications

Function	Range	Resolution	Accuracy ± ([% of Reading] + [Counts])		Model
DC Millivolts	600.0 mV	0.1 mV	0.5 % + 2		110, 114, 115, 1 17
	6.000 V	0.001 V			
DC Volts	60.00 V	0.01 V	0.5 % + 2		110, 114, 115, 1 17
	600.0 V	0.1 V			
			DC, 45 to 500 Hz	500 Hz to 1 kH	
Auto-V LoZ[1] True- rms	600.0 V	0.1 V	2.0 % + 3	4.0 % + 3	114, 117
	6.000 V	0.001 V			
k <i>CHEK</i> [4]	60.00 V	0.01 V	2.0 % + 3	4.0 % + 3	113

	600.0 V	0.1 V			
			45 to 500 Hz	500 Hz to 1 kH	
AC millivolts[1] True -rms	600.0 mV	0.1 mV	1.0 % + 3	2.0 % + 3	110, 114, 115, 1 17
	6.000 V	0.001 V			
AC Volts[1] True-rm	60.00 V	0.01 V	1.0 % + 3	2.0 % + 3	110, 114, 115, 1 17
	600.0 V	0.1 V			
Continuity[5]	600 Ù	1 Ù		Ù, off >250 Ù. De horts of 500 ms	110, 114, 115, 1 17
	_	_	or longer.		
	600.0 Ù	0.1 Ù	0.9 % + 2		
	6.000 kÙ	0.001 kÙ	0.9 % + 1	0.9 % + 1	
	60.00 kÙ	0.01 kÙ	0.9 % + 1		15, 117
Ohms[5]	600.0 kÙ	0.1 kÙ	0.9 % + 1		
	6.000 MÙ	0.001 MÙ	0.9 % + 1		110, 114, 115, 1 17
	40.00 MÙ	0.01 MÙ	5.0 % + 2		
Diada Tastifi	0.000 \	0.001.1/	0.9 % + 2	0.9 % + 2	
Diode Test[5]	2.000 V	0.001 V	2.0 % + 3		113
	1000 nF	1 nF	1.9 % + 2	1	
	10.00 mF	0.01 mF	1.9 % + 2		
	100.0 mF	0.1 mF	1.9 % + 2		
Capacitance[5]					113, 115, 117

	9999 mF	1 mF	100 mF - 1000 mF: 1.9 % +2 >1000 mF: 5 % + 20	
Lo-Z Capacitance (Power-up option)	1 nF to 500 mF		10 % + 2 typical	115, 117
AC Amps True-rms[1] (45 Hz to 500 Hz	6.000 A	0.001 A	1.5 % + 3	115, 117
	10.00 A[3]	0.01 A	1.5 % + 5	
DC Amps	6.000 A	0.001 A	1.0 % + 3	115, 117
	10.00 A[3]	0.01 A	1.0 % + 3	110, 117

Function	Range	Resolution	Accuracy ± ([% of Reading] + [Counts])	Model
	99.99 Hz	0.01 Hz		
	999.9 Hz	0.1 Hz		
	9.999 kHz	0.001 kHz		
	50.00 kHz	0.01 kHz		
	99.99 kHz	0.01 kHz		
Hz (V or A input)[2]			0.1 % + 2	115, 117

Notes: [1] All ac ranges except Auto-V LoZ are specified from 1 % to 100 % of range. Auto-V LoZ is specified from 0.0 V. Because inputs below 1 % of range are not specified, it is normal for this and other true-rms meters to display non-zero readings when the test leads are disconnected from a circuit or are shorted together. For volt s, crest factor of ::3 at 4000 counts, decreasing linearly to 1.5 at full scale. For amps, crest factor of ::3. AC volts is ac-coupled.

Auto-V LoZ, AC mV, and AC amps are dc-coupled.

- [2] AC Volts Hz is ac-coupled and specified from 5 Hz to 99.99 kHz. Minimum input required above 50.00 kHz typically is >1.1 vac sine. Minimum input typical and not specified. AC Amps Hz is dc-coupled and specified from 45 Hz to 5 kHz. [3] W>10 A unspecified. Duty cycle: >10 A to 20 A, 30 seconds on, 10 minutes off.
- [4] 113 only: All CHEK voltage ranges are specified from 60 counts to 100 % of range. Because inputs < 60 counts are not specified, it is possible and normal for this and other true-rms meters to display non-zero readings when the test leads are disconnected from a circuit or are shorted together. Crest factor of ::3 at 4000 count s, decreasing linearly to 1.5 at full scale.
- [5] 113 only: After measuring voltage, a wait time of 1 minute is required to maintain accuracy of ohms, capa citance, diode test, and continuity.

Table 7. Input Characteristics (110, 114, 115, 117)

Function	Input Impedance (Nomin al)	Common Mode Rejection Ratio (1 kÙ Unbalanced)		Normal Mode Rej ection
Volts AC	>5 MÙ <100 pF	>60 dB at dc, 50 or 60 Hz	0.5 % + 2	
Volts DC	>10 MÙ <100 pF	>100 dB at dc, 50 or 60 Hz	0.5 % + 2	
Auto-V LoZ	~3 kÙ <500 pF	<500 pF >60 dB at dc, 50 or 60 Hz		
Open Circuit Test Voltage		Full Scale Voltage		Short Circuit Cur rent
Ohms	<2.7 V dc	to 6.0 MÙ	40 M Ù	<350 mA
Omins	\2.1 V UC	<0.7 V dc	<0.9 V dc	2000 IIIA
Diode Test	<2.7 V dc	2.000 V dc		<1.2 mA

Table 8. Input Characteristics (113)

Function	Input Impedance (Nominal)	Common Mode Rejection Ratio		
€ CHEK	~3 kÙ <300 pF	>60 dB at dc, 50 or 60 Hz		
	Open Circuit Test Voltage	Full Scale Voltage		
Ohms	<2.7 V dc	<0.7 V dc		
Diode Test	<2.7 V dc	<2.000 V dc		
	Short Circuit Current			
Ohms	<350 mA			
Diode Test	<1.0 mA			

MIN MAX Recording Accuracy and Response Time (113)

Specified accuracy of the measurement function ±40 counts in CHEK for changes >500 ms in duration, ±12 counts in e for changes >325 ms in duration. Typical 100 ms response to 80 %. Response time not specified for capacitance.

FREQUENTLY ASKED QUESTIONS

What is the brand and model of the digital multimeter described?

The digital multimeter described is the Fluke 117 Digital Multimeter.

What is the power source used for the Fluke 117 Digital Multimeter?

The Fluke 117 Digital Multimeter operates using alkaline batteries.

What is the weight of the Fluke 117 Digital Multimeter?

The Fluke 117 Digital Multimeter weighs 1.21 pounds or approximately 550 grams.

What are the dimensions of the Fluke 117 Digital Multimeter?

The dimensions of the Fluke 117 Digital Multimeter are approximately 12.99 x 11.02 x 5.91 inches.

How many batteries are required to operate the Fluke 117 Digital Multimeter?

The Fluke 117 Digital Multimeter requires 2 AA batteries, which are included with the product.

What is the warranty period for the Fluke 117 Digital Multimeter?

The Fluke 117 Digital Multimeter comes with a warranty of 3 years.

What is the measurement accuracy of the Fluke 117 Digital Multimeter?

The Fluke 117 Digital Multimeter has a measurement accuracy of +/-0.5%.

What is the item model number of the Fluke 117 Digital Multimeter?

The item model number of the Fluke 117 Digital Multimeter is 17.

What is the lower temperature rating of the Fluke 117 Digital Multimeter?

The lower temperature rating of the Fluke 117 Digital Multimeter is 10 degrees Celsius.

What is the price of the Fluke 117 Digital Multimeter?

The price of the Fluke 117 Digital Multimeter is \$251.09.

My Fluke 117 Digital Multimeter is not turning on. What could be the issue?

First, ensure that the batteries are inserted correctly and have sufficient charge. Check the battery compartment for any corrosion or loose connections. If the issue persists, try replacing the batteries with new ones.

The display on my Fluke 117 Digital Multimeter is not showing any readings. How can I troubleshoot this?

Check the function selector knob to ensure it's set to the appropriate measurement setting. Verify that the test leads are connected securely to the correct terminals. If using the auto-ranging feature, try manually selecting the appropriate range.

My Fluke 117 Digital Multimeter is displaying inaccurate readings. What steps can I take to address this issue?

Ensure that the test leads are not damaged and are making good contact with the measurement points. Check the input jacks for any debris or corrosion that may affect the connections.

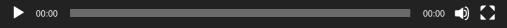
The rotary switch on my Fluke 117 Digital Multimeter is not functioning properly. How should I troubleshoot this?

Inspect the rotary switch for any physical damage or debris that may be obstructing its movement. Try rotating the switch through its full range of positions to see if it frees up.

The continuity buzzer on my Fluke 117 Digital Multimeter is not working. What should I do?

Check the continuity setting on the multimeter and ensure it's properly engaged. Verify that the test leads are connected to the correct terminals and are making good contact.

VIDEO - PRODUCT OVERVIEW



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REFERENCE: Fluke 117 Digital Multimeter User's Manual-Device.Report

References

• User Manual

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