

Fluke 115 Multimeter

















Technical Data

Compact true-rms meter for field service technicians

The Fluke 115 is the solution for a wide variety of electrical and electronic testing applications. This true-rms meter provides easy one-handed operation in a compact package.

Features include:

- Resistance, continuity, frequency, capacitance, and diode test
- Measures 20 A (30 seconds momentary; 10 A continuous)
- Large white LED backlight to work in poorly lit areas
- Compact ergonomic design for one-handed operation
- Compatible with optional magnetic hanger (ToolPak™)
- True-rms for accurate measurements on non-linear loads
- Min/Max/Average with elapsed time to record signal fluctuations
- CAT III 600 V safety rated

General specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 $^{\circ}$ C to 28 $^{\circ}$ C, with relative humidity at 0 % to 95 %.

The accuracy specifications take the form of: \pm ([% of reading] + [counts])

Maximum voltage between any terminal and earth ground	600 V	
Surge protection	6 kV peak per IEC 61010-1 600 V CAT III, Pollution Degree 2	
Fuse for A input	11 A, 1000 V FAST Fuse (Fluke PN 803293)	
Display	Digital: 6,000 counts, updates 4/sec	
Bar graph	33 segments, updates 32/sec	
Operating temperature	-10 °C to + 50 °C	
Storage temperature	-40 °C to + 60 °C	
Battery	9 volt Alkaline, NEDA 1604A/ IEC 6LR61	
Battery life	400 hours typical, without backlight	



Accuracy specifications

Measurement	Range	Resolution	Accuracy ± ([% of reading] + [counts])	
DC millivolts	600.0 mV	0.1 mV	2.0 % + 3	
DC volts	6.000 V	0.001 V		
	60.00 V	0.01 V		
	600.0 V	0.1 V		
Auto volts	600.0 V	0.1 V	2.0 % + 3 (dc, 45 Hz to 500 Hz) 4.0 % + 3 (500 Hz to 1 kHz)	
AC millivolts ¹ true-rms	600.0 mV	0.1 mV	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)	
AC volts ¹ true-rms	6.000 V	0.001 V		
	60.00 V	0.01 V	1.0 % + 3 (45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)	
	600.0 V	0.1 V	2.0 % + 3 (300 Hz to 1 kHz)	
Continuity	600 Ω	1 Ω	Beeper on $< 20~\Omega$ off $> 250~\Omega$; detects opens or shorts of 500 μs or longer.	
Ohms	600.0 Ω	0.1Ω	0.9 % + 2	
	6.000 kΩ	0.001 kΩ		
	60.00 kΩ	0.01 kΩ		
	600.0 kΩ	0.1 kΩ	0.9 % + 1	
	6.000 MΩ	0.001 MΩ		
	40.00 MΩ	0.01 ΜΩ	1.5 % + 2	
Diode test	2.000 V	0.001 V	0.9 % + 2	
Capacitance	1000 nF	1 nF	1.9 % + 2	
	10.00 μF	0.01 μF		
	100.0 μF	0.1 μF		
	9999 μF	1 μF		
	100 μF to 1000 μF		1.9 % + 2	
	> 1000 µF		5 % + 20	
Lo-Z capacitance	1 nF to 500 μF		10 % + 2 typical	
AC amps true-rms (45 Hz to 500 Hz)	6.000 A	0.001 A		
	10.00 A	0.01 A	1.5 % + 3	
2)	20 A continuous overload for 30 seconds max.			
DC amps	6.000 A	0.001 A	1.0 % + 3	
	10.00 A	0.01 A		
	20 A continuous overload for 30 seconds max.			
Hz (V or A input) ²	99.99 Hz	0.01 Hz		
	999.9 Hz	0.1 Hz	0.1 % + 2	
	9.999 kHz	0.001 kHz		
	50.00 kHz	0.01 kHz		

Ordering information

Fluke-115 Multimeter Included TL75 Test leads, holster, User's manual and 9 V battery (installed).



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All ac voltage ranges are specified from 1 % to 100 % of range. 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 volts, crest factor of ≤ 3 at 4000 counts, decreasing linearly to 1.5 at full scale. AC volts is ac coupled and ac mV is dc coupled.

Frequency is ac coupled, 5 Hz to 50 kHz for ac voltage. Frequency is dc coupled, 45 Hz to 5 kHz for ac current.