



TECHNICAL DATA

Fluke 317/319 Clamp Meters





Key features

The two models are economic, compact and offer a range of special features:

- Unique 40A high-precision low current measurement--0.01A high-resolution, 1.6% high-precision measurement
- The clamps are slim, lightweight, and portable, making them ideal for use in small, confined spaces
- The large backlight display facilitates readings in dark environments
- Starting current (inrush) functionality (319) allows measurement of the starting current of electrical and lighting equipment, for example. (319)
- Current frequency measurement
- Precision down to 0.01A and 0.1V
- 1000A/600A AC/DC current measurement (319/317)
- 600V AC/DC voltage measurement
- 4000Ω resistance measurement
- Continuity beeper
- Auto off function enhances battery life, meaning the instrument can work when you need it screen store 'hold' function for capturing a measurement result on the screen
- One year warranty

Product overview: Fluke 317/319 Clamp Meters

The Fluke 317 and 319 are designed with ergonomic concepts, shaped to fit your hand and to access tight spots easily. These small and rugged clamp meters are ideally suited for current measurements up to 1000 A (319) in tight cable compartments. The Fluke 317 and 319 also offer AC/DC current measurements and has a higher resolution for loads below 40 A. In addition to a compact package with a strong feature set, the Fluke 319 also equip with In-rush current and

Frequency functions for testing motors, lighting, etc.

Specifications: Fluke 317/319 Clamp Meters

General specifications			
Digital display	6000 count resolution		
Low battery Indication	Displays a signal when the batteries are below their required voltage		
Power source	Three AAA IEC LR03 batteries		
Clamp opening size	1.45 in (37 mm)		
Jaw diameter	1.45 in (37 mm)		
Dimensions (L x W x H)	9.21 in x 2.95 in x 1.37 in		
	(234.0 mm x 75.0 mm x 34.8 mm)		
Weight	Approximately 13.5 oz (384 g) (batteries included)		
Auto range	Available in Ohms		
Safety	CE		
	EN/IEC 61010-1 and IEC 61010-2-032		
	Measurement Category: 600V CAT III		
317 Electrical specifications			
Current AC	Range	40.00 A, 600.0 A	
	Resolution	0.01 A, 0.1 A	
	Accuracy	1.6% ±16 digit (50-60 Hz) {40 A}	
		2.5% ±18 digit (60-500 Hz) {40 A}	
		1.5% ±15 digit (50-60 Hz) {600 A}	
		2.5% ±15 digit (60-500 Hz) {600 A}	
	Crest Factor add 2% into spec for CF > 2	3.0 Max @ 500 A, 2.5 Max @ 600 A	
AC response	rms		
Current DC	Range	40.00 A, 600.0 A	
	Resolution	0.01 A, 0.1 A	
	Accuracy	1.6% ±16 digit (40 A)	
		1.5% ±15 digit (600 A)	
Voltage AC	Range	600.0 V	
	Resolution	0.1 V	
	Accuracy	1.5% ±15 digit (20-500Hz)	
	AC response	rms	

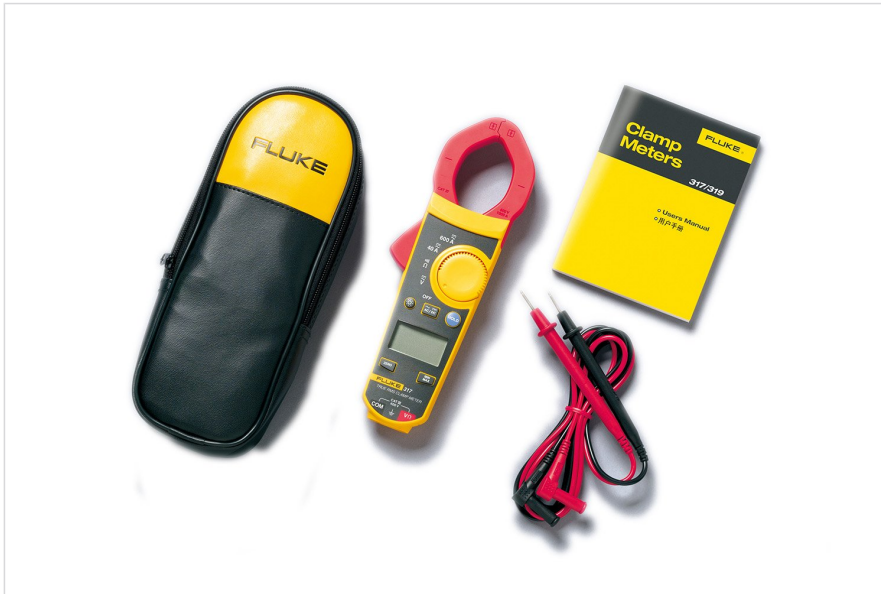
Voltage DC	Range	600.0 V
	Resolution	0.1 V
	Accuracy	1% u00b14 digit
Resistance	Range	400.0 u03a9, 4000 u03a9
	Resolution	0.1 u03a9, 1 u03a9
	Accuracy	1% u00b15 digit
Continuity	u2264 30 u03a9	
Inrush	Integration time	N/A
Frequency	Range	N/A
	Accuracy	N/A
	Trigger Level	N/A

319 Electrical specifications

Current AC	Range	40.00 A, 600.0 A, 1000 A
	Resolution	0.01 A, 0.1 A, 1 A
	Accuracy	1.6% u00b16 digit (50-60 Hz) {40 A}
		2.5% u00b18 digit (60-500 Hz) {40 A}
		1.5% u00b15 digit (50-60 Hz) {600/1000 A}
		2.5% u00b15 digit (60-500 Hz) {600/1000 A}
	Crest Factor add 2% into spec for CF > 2	3.0 Max @ 500 A, 2.5 Max @ 600 A, 1.4 Max @ 1000 A
AC response	rms	
Current DC	Range	40.00 A, 600.0 A, 1000 A
	Resolution	0.01 A, 0.1 A, 1 A
	Accuracy	1.6% u00b16 digit (40 A)
		1.5% u00b15 digit (600/1000 A)
Voltage AC	Range	600.0 V
	Resolution	0.1 V
	Accuracy	1.5% u00b15 digit (20-500Hz)
	AC response	rms
Voltage DC	Range	600.0 V
	Resolution	0.1 V
	Accuracy	1% u00b14 digit

Resistance	Range	400.0 u03a9
		4000 u03a9
	Resolution	0.1 u03a9
		1 u03a9
Accuracy	1% u00b15 digit	
Continuity	u2264 30 u03a9	
Inrush	Integration time	100 ms
Frequency	Range	5.0 - 500.0 Hz
	Accuracy	0.5% u00b15 digit
	Trigger Level	10 - 100 Hz u2265 5 A, 5 - 10 Hz, 100 - 500 Hz u2265 10 A
<p>The accuracy specifications apply at 73 u00b0F u00b1141 u00b0F (23 u00b0C u00b115 u00b0C) ttBelow 64 u00b0F and above 82 u00b0F (18 u00b0C and above 28 u00b0C) accuracy degrades at (0.1) times specification per u00b0C. ttTrue rms for ac V and ac A accuracy is specified from 5% to 100% of range.</p>		
Environmental specifications		
Operating temperature	14u00b0F to 122u00b0F (-10 u00b0C to 50 u00b0C)	
Storage temperature	-40 u00b0F to 140 u00b0F (-40 u00b0C to 60 u00b0C)	
Operating humidity	Non-condensing (< 50 u00b0F) (< 10 u00b0C)	
	90% RH (50 u00b0F to 86 u00b0F) (10 u00b0C to 30 u00b0C)	
	75% RH (86 u00b0F to 104 u00b0F) (30 u00b0C to 40 u00b0C)	
	45% RH (104 u00b0F to 122 u00b0F) (40 u00b0C to 50 u00b0C)	
	(Without condensation)	
Operating altitude	1 mile (2000 meters) above mean sea level	
Storage altitude	7 miles (12,000 meters) above mean sea level	
IP Rating	IP40	
Vibration requirements	Random MIL-PRF-28800F Class 2, 5-500 Hz, 30 minutes per axis	
Drop test requirements	3 ft (1 m) drop test, six sides, oak floor	
EMI, RFI, EMC	Instrument unspecified for use in EMC field u2265 0.1 V/m	
Temperature coefficients	0.1x (specified accuracy)/ u00b0C	
	(<64 u00b0F or > 82u00b0 F)	
	(<18 u00b0C or > 28 u00b0C)	

Ordering information



Fluke 317/319

The Fluke 317 and 319 are designed with ergonomic concepts, shaped to fit your hand and to access tight spots easily.

The Meter ships with:

- Test Leads
- Soft Carrying Case
- Three AAA batteries (Installed)
- 317/319 User Manual

These small and rugged clamp meters are ideally suited for current measurements up to 1000 A (319) in tight cable compartments. The Fluke 317 and 319 also offer AC/DC current measurements and has a higher resolution for loads below 40 A. In addition to a compact package with a strong feature set, the Fluke 319 also equip with In-rush current and Frequency functions for testing motors, lighting, etc

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Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

For more information call:

In the U.S.A. (800) 443-5853

In Europe/M-East/Africa +31 (0)40 267 5100

In Canada (800)-36-FLUKE

From other countries +1 (425) 446-5500

Fluke Electronics (Malaysia) Sdn Bhd

Suite D-3A-4, Block D

SouthGage Commercial Centre, No2

Jalan Dua Off Jln Chan Sow Lin

55200 KL

Malaysia

Email: info.asean@fluke.com

www.fluke.com/my

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