

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 baery Indication		Displays a signal when the baeries are below their required voltage
Power source		Three AAA IEC LR03 baeries
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) (baeries 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% ±6 digit (50-60 Hz) {40 A}
		2.5% ±8 digit (60-500 Hz) {40 A}
		1.5% ±5 digit (50-60 Hz) {600 A}
		2.5% ±5 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% ±6 digit (40 A)
		1.5% ±5 digit (600 A)
Voltage AC	Range	600.0 V
	Resolution	0.1 V
	Accuracy	1.5% ±5 digit (20-500Hz)
	AC response	rms

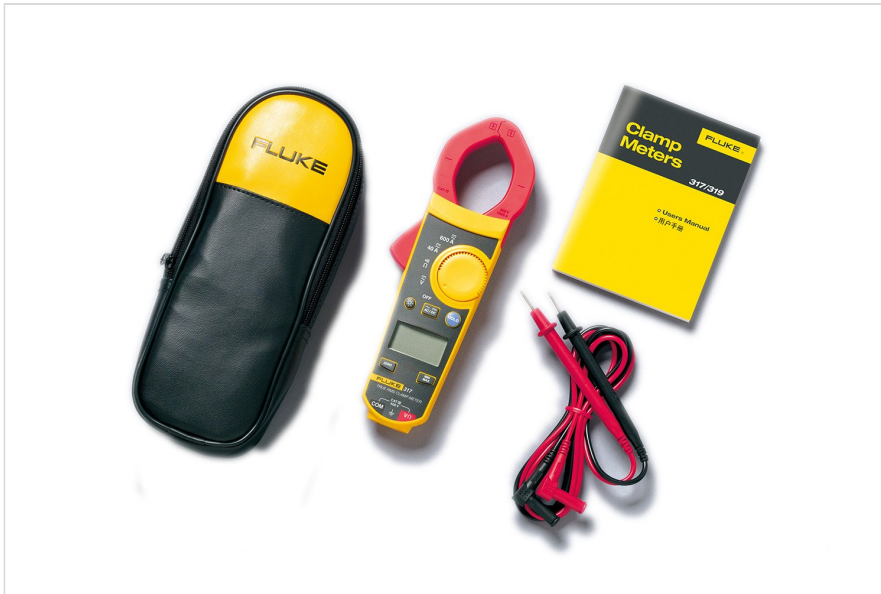
Voltage DC	Range	600.0 V
	Resolution	0.1 V
	Accuracy	1% $\pm$ 4 digit
Resistance	Range	400.0 Ω , 4000 Ω
	Resolution	0.1 Ω , 1 Ω
	Accuracy	1% $\pm$ 5 digit
Continuity	$\square$ 30 Ω	
Inrush	Integration time	N/A
Frequency	Range	N/A
	Accuracy	N/A
	Trigger Level	N/A

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% $\pm$ 6 digit (50-60 Hz) {40 A}
		2.5% $\pm$ 8 digit (60-500 Hz) {40 A}
		1.5% $\pm$ 5 digit (50-60 Hz) {600/1000 A}
		2.5% $\pm$ 5 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% $\pm$ 6 digit (40 A)
		1.5% $\pm$ 5 digit (600/1000 A)
Voltage AC	Range	600.0 V
	Resolution	0.1 V
	Accuracy	1.5% $\pm$ 5 digit (20-500Hz)
	AC response	rms
Voltage DC	Range	600.0 V
	Resolution	0.1 V
	Accuracy	1% $\pm$ 4 digit

Resistance	Range	400.0 Ω
		4000 Ω
	Resolution	0.1 Ω
		1 Ω
	Accuracy	1% $\pm$ 5 digit
Continuity	$\square$ 30 Ω	
Inrush	Integration time	100 ms
Frequency	Range	5.0 - 500.0 Hz
	Accuracy	0.5% $\pm$ 5 digit
	Trigger Level	10 - 100 Hz $\square$ 5 A, 5 - 10 Hz, 100 - 500 Hz $\square$ 10 A
The accuracy specifications apply at 73 °F $\pm$41 °F (23 °C $\pm$5 °C) Below 64 °F and above 82 °F (18 °C and above 28 °C) accuracy degrades at (0.1) times specification per °C. True rms for ac V and ac A accuracy is specified from 5% to 100% of range.		
Environmental specifications		
Operating temperature	14°F to 122°F (-10 °C to 50 °C)	
Storage temperature	-40 °F to 140 °F (-40 °C to 60 °C)	
Operating humidity	Non-condensing (< 50 °F) (< 10 °C)	
	90% RH (50 °F to 86 °F) (10 °C to 30 °C)	
	75% RH (86 °F to 104 °F) (30 °C to 40 °C)	
	45% RH (104 °F to 122 °F) (40 °C to 50 °C)	
	(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 $\square$ 0.1 V/m	
Temperature coefficients	0.1x (specified accuracy)/ °C	
	(<64 °F or > 82° F)	
	(<18 °C or > 28 °C)	

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

Fluke. *Keeping your world up and running.®*

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