

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 sp	ecifications			
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		
		CE		
Safety		EN/IEC 61010-1 and IEC 61010-2-032		
		Measurement Category: 600V CAT III		
317 Electric	cal specifications			
	Range		40.00 A, 600.0 A	
	Resolution		0.01 A, 0.1 A	
			1.6% u00b16 digit (50-60 Hz) {40 A}	
0	A		2.5% u00b18 digit (60-500 Hz) {40 A}	
Current AC	Accuracy		1.5% u00b15 digit (50-60 Hz) {600 A}	
			2.5% u00b15 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	
	Range		40.00 A, 600.0 A	
Current DC	Resolution		0.01 A, 0.1 A	
Current DC	Acquirect		1.6% u00b16 digit (40 A)	
	Accuracy		1.5% u00b15 digit (600 A)	
Voltage AC	Range		600.0 V	
	Resolution		0.1 V	
	Accuracy		1.5% u00b15 digit (20-500Hz)	
	AC response		rms	



	Range			600.0 V	
Voltage DC	Resolution			0.1 V	
	Accuracy			1% u00b14 digit	
	Range			400.0 u03a9, 4000 u03a9	
Resistance	Resolution			0.1 u03a9, 1 u03a9	
	Accuracy			1% u00b15 digit	
Continuity	u2264 30 u03a9				
Inrush	Integra	ation time		N/A	
	Range			N/A	
Frequency	Accura	асу	N/A		
	Trigge	r Level		N/A	
319 Electric	cal spe	cifications			
		Range	40.00 A, 600.0 A, 1000 A		
		Resolution	0.01 A, 0.1 A, 1 A		
			1.6% u00b16 digit (50-6	60 Hz) {40 A}	
		Acquirect	2.5% u00b18 digit (60-500 Hz) {40 A}		
Current AC		Accuracy	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		
	Range		40.00 A, 600.0 A, 1000 A		
Current DC		Resolution	0.01 A, 0.1 A, 1 A		
Current DC		Accuracy	1.6% u00b16 digit (40 A)		
		Accuracy	1.5% u00b15 digit (600/1000 A)		
	Range		600.0 V		
Voltage AC	Resolution		0.1 V		
Voltage AC	Accuracy		1.5% u00b15 digit (20-500Hz)		
	AC response		rms		
	Range		600.0 V		
Voltage DC	Resolution		0.1 V		
	Accuracy		1% u00b14 digit		



	Danas	400.0 u03a9
	Range	4000 u03a9
Resistance	Resolution	0.1 u03a9
	Resolution	1 u03a9
	Accuracy	1% u00b15 digit
Continuity	u2264 30 u03a9	
Inrush	Integration time	100 ms
	Range	5.0 - 500.0 Hz
Frequency	Accuracy	0.5% u00b15 digit
	Trigger Level	10 - 100 Hz u2265 5 A, 5 - 10 Hz, 100 - 500 Hz u2265 10 A

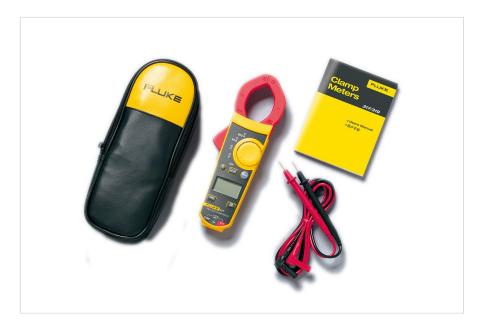
The accuracy specifications aply at 73 u00b0F u00b141 u00b0F (23 u00b0C u00b15 u00b0C) ttBelow 64 u00b0F and above 82 u00b0F (18 u00b0C and above 28 u00b0C) accuracy degrades at (0.1) times specification per u00b0C.

ttTrue rms for ac V and ac A accuracy is specified from 5% to 100% of range.

Environmental specifications				
Operating temperature	14u00b0F to 122u00b0F (-10 u00b0C to 50 u00b0C)			
Storage temperature	-40 u00b0F to 140 u00b0F (-40 u00b0C to 60 u00b0C)			
	Non-condensing (< 50 u00b0F) (< 10 u00b0C)			
	90% RH (50 u00b0F to 86 u00b0F) (10 u00b0C to 30 u00b0C)			
Operating humidity	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			
	0.1x (specified accuracy)/ u00b0C			
Temperature coefficients	(<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



Fluke. Keeping your world up and running.®

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