

FLUKE®

**Fluke 317/319
True RMS Clamp Meters**

Accurate. Rugged. Safe.

New



Fluke 317/319

True RMS Clamp Meters

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General specifications	
Power supply	3x AAA IEC LR03 batteries
Max. jaw opening	37 mm (1.45 in)
Jaw diameter	37 mm (1.45 in)
Dimensions (L x W x H)	234 mm x 74 mm x 34.8 mm
Weight	384 g (13.5 oz) (with battery)
Calibration	Fully manual calibration and testing, one year calibration testing period
Digital display resolution	6000 digits
Safety	CE EN/IEC 61010-1 and IEC 61010-2-032 Measurement category: 600 V CAT III (Category III)

Environmental indicators	
Working temperature	-10°C to 50°C (14°F to 122°F)
Storage temperature	-40°C to 60°C (-40°F to 140°F)
IP equivalent	IP40
Drop test requirements	Drop height tested to 1 m (3 ft), all six sides tested, oak flooring

Fluke 317, 319 functions: new/improved features

- Thin jaws and small, light body mean the meters are more suitable for use in confined spaces.
- Large 1000 A AC/DC current measurement with AC/DC voltage measurement.
- Inrush measurement technology allows measurement of starting current for devices such as motors and lightning equipment; integration time is 100 ms (Fluke 319 only).
- Frequency measurements enable accurate measurement of PWM output signal frequency (Fluke 319 only).
- True RMS AC/DC measurement
- Min/max function suitable for current and voltage
- Large easy to read, 6000 count backlit display
- 4000 Ω resistance measuring span
- Data hold function can save measurement results on the screen
- Continuity beeper $\leq 30 \Omega$
- Auto Power Off function maximises battery life span
- Clamp opening: 37 mm (1.45 inch)
- Warranty - 1 year



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Technical specifications			
Function	Parameter	Fluke 317	Fluke 319
AC Current	Measurement	40.00 A	40.00 A
		600.0 A	600.0 A
			1000 A
	Resolution	0.01 A	0.01 A
		0.1 A	0.1 A
			1 A
	Precision	Accuracy 1.6% ± 6 digits (50-60 Hz) [40 A]	1.6% ± 6 digits (50-60 Hz) [40 A]
2.5% ± 8 digits (60-500 Hz) [40 A]		2.5% ± 8 digits (60-500 Hz) [40 A]	
1.5% ± 5 digits (50-60 Hz) [600 A]		1.5% ± 5 digits (50-60 Hz) [600/1000 A]	
2.5 % ± 5 digits (60-500 Hz) [600 A]		2.5% ± 5 digits (60-500 Hz) [600/1000 A]	
When crest factor CF > 2, increase the specifications by 2%	For 500 A, maximum 3.0	For 500 A, maximum 3.0	
	For 600 A, maximum 2.5	For 600 A, maximum 2.5	
AC response	RMS	RMS	
DC Current	Range	40.00 A	40.00 A
		600.0 A	600.0 A
			1000 A
	Resolution	0.01 A	0.01 A
		0.1 A	0.1 A
			1 A
Accuracy	1.6% ± 6 digits [40 A]	1.6% ± 6 digits [40 A]	
	1.5% ± 5 digits [600 A]		
AC voltage	Range	600.0 V	
	Resolution	0.1V	
	Accuracy	1.5% ± 5 digits (20-500Hz)	
	AC response	RMS	
DC voltage	Range	600.0 V	
	Resolution	0.1 V	
	Accuracy	1% ± 4 digits	
Resistance	Measurement	4000 Ω	
	Resolution	0.1 Ω	
		1.0 Ω	
	Accuracy	1% ± 5 digits	
Continuity		≤ 30 Ω	
Inrush current	Integration time	NA	100 ms
Frequency	Measuring span	NA	5.0-500.0 Hz
	Accuracy	NA	0.5% ± 5 digits
	Power level	NA	10 - 100 Hz ≥ 5 A, 5 - 10 Hz, 100 - 500 Hz ≥ 10 A



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- Frequency measurement (Fluke 319)
- Unique 40 A low frequency measurements capability with 0.01 A resolution, 1.6 % accuracy