

# Fluke 320 and 330 Series Clamp Meters

## **Technical Data**



- Narrow body and jaw fit into small spaces
- Backlight available on most models
- Accurate low current measurements
- Inrush current feature on most models
- Auto shut-off

### **New Inrush Feature**

A new innovation from Fluke! Fluke Clamp Meters with the inrush feature measure motor starting current like a circuit breaker or overload unit sees it. One button lets you troubleshoot current surges that can cause nuisance tripping. Fluke's inrush feature gives you a synchronized reading of the current draw profile from motor start up.

For more information about Fluke's new inrush feature go to www.fluke.com/330 to view Inrush, A Technology Brief.

## Choose the model that fits your work.

Looking for a clamp meter that's right for you? Match the functions and features listed below to the Fluke Clamp Meter best suited for your job.

Measure ac current

Measure ac voltage

Measure continuity

Measure dc voltage

Measure resistance
Measure inrush

Measure dc current

Work in poorly lit areas

Measure non-linear loads

Higher resolution for loads below 40 amperes

Variable speed drives and stand-by nower

321	322
AC Amps Ohms AC Volts Auto-Off Hold Compact	AC Amps Ohms AC Volts Auto-Off Hold Compact DC Volts
400.0 A	40.00 A
400.0 V	400.0 A 400.0 V
600 V	600 V
≤ 30 Ω	≤ 30 Ω
	400.0 V 600 V
	0 - 40.00A 40.0 - 400.0A
400.0 Ω	400.0 Ω



333	334	335	336	337	
AC Amps	AC Amps	AC Amps	AC Amps	AC Amps	
Ohms	Ohms	Ohms	Ohms	Ohms	
AC Volts	AC Volts	AC Volts	AC Volts	AC Volts	
Auto-Off	Auto-Off	Auto-Off	Auto-Off	Auto-Off	
Hold	Hold	Hold	Hold	Hold	
<b>Full Size</b> DC Volts	Full Size	Full Size DC Volts	Full Size	Full Size	
DC VOILS	DC Volts <b>In-rush</b>	In-rush	DC Volts In-rush	DC Volts In-rush	
	Backlight	Backlight	Backlight	Backlight	
	Dackingin	True-rms	True-rms	True-rms	
		11uc-11lis	DC Amps	DC Amps	
				Frequency	
				Large Jaw	
				MIN/MAX	
2007	1571	E53.			
			S P		
OFF	OFF	Wals	OFF	OFF WA	
4กก๊ก	6000	6000	6000	6000	
750,51					
FLLIKE 333	FLUKE 334	FLUKE 335	FLLIKE 336	PLUKE 337	
DOWN CATE VO	DOM SATE VO	DOW DATE VA	- 200 mg	SOON SOON	
400.0 A	600.0 A	600.0 A	600.0 A	999.9 A	
000 0 11	000017	200 0 17	200 0 17	0000017	
600.0 V	600.0 V	600.0 V	600.0 V	600.0 V	
≤ 30 Ω	≤ 30 Ω	≤ 30 Ω	≤ 30 Ω	≤ 30 Ω	
600.0 V	600.0 V	600.0 V	600.0 V	600.0 V	
600.0 Ω	6000 Ω	6000 Ω	6000 Ω	6000 Ω	
			100 mS		
	Backlight	Backlight	Backlight	Backlight	
		True-rms	True-rms	True-rms	
			999.9 A		
	400.0 A 999.9		000.011		
≤ 30 Ω	≤ 30 Ω 600.0 V 6000 Ω	≤ 30 Ω 600.0 V 6000 Ω	≤ 30 Ω 600.0 V 6000 Ω	≤ 30 Ω 600.0 V 6000 Ω	

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## **Specifications** (@23 °C + 5 °C RH 0 - 90%)

		Fluke 321	Fluke 322	Fluke 333	Fluke 334	Fluke 335	Fluke 336	Fluke 337
	Range	0 - 400.0 A	0 - 40.00 A 40.0 - 400.0 A	0 - 400.0 A	0 - 600.0 A	0 - 600.0 A	0 - 600.0 A	0 - 999.9 A
$\widetilde{\mathbf{A}}$	Accuracy	1.8% ± 5 counts (50 - 60 Hz) 3.0% ± 5 counts (60 Hz - 400 Hz)	1.8% ± 5 counts (50 - 60 Hz) 3.0% ± 5 counts (60 Hz - 400 Hz)	2% ± 5 counts (50 - 60 Hz)	2% ± 5 counts (50 - 60 Hz)	2% ± 5 counts (50 - 60 Hz)	2% ± 5 counts (10 - 100 Hz) 6% ± 5 counts (100 - 400 Hz)	2% ± 5 counts (10 - 100 Hz) 6% ± 5 counts (100 - 400 Hz)
	Crest Factor (50/60 Hz)	_	-	-	_	2.4 @ 500 A 2.0 @ 600 A add 2% for C.F.>2	3 @ 500 A 2.5 @ 600 A add 2% for C.F.>2	3 @ 500 A 2.5 @ 600 A 1.42 @ 1000 A add 2% for C.F.>2
	AC Response	Averaging	Averaging	Averaging	Averaging	True-rms	True-rms	True-rms
Inrush	Integration Time	_	_	_	100 mS	100 mS	100 mS	100 mS
===	Range	_	_	_	_	_	0 - 600.0 A	0 - 999.9 A
Α	Accuracy	_	_	_	_	_	2% + 3 counts	2% + 3 counts
	Range	0 - 400.0 V 0 - 600 V	0 - 400.0 V 0 - 600 V	0 - 600.0 V	0 - 600.0 V	0 - 600.0 V	0 - 600.0 V	0 - 600.0 V
v	Accuracy	1.2% + 5 counts (50 - 400 Hz)	1.2% + 5 counts (50 - 400 Hz)	1% + 5 counts (50/60 Hz)	1% + 5 counts (50/60 Hz)	1% + 5 counts (50/60 Hz)	1% + 5 counts (20 - 100 Hz) 6% + 5 counts (100 - 400 Hz)	1% + 5 counts (20 - 100 Hz) 6% + 5 counts (100 - 400 Hz)
	AC Response	Averaging	Averaging	Averaging	Averaging	True-rms	True-rms	True-rms
v	Range	_	0 - 400.0 V 0 - 600 V	0 - 600.0 V	0 - 600.0 V	0 - 600.0 V	0 - 600.0 V	0 - 600.0 V
	Accuracy	_	1% + 5 counts	1% + 5 counts	1% + 5 counts	1% + 5 counts	1% + 5 counts	1% + 5 counts
Ω	Range	0 - 400.0 Ω	0 - 400.0 Ω	0 - 600.0 Ω	0 - 600.0 Ω 601 - 6000 Ω	0 - 600.0 Ω 601 - 6000 Ω	0 - 600.0 Ω 601 - 6000 Ω	0 - 600.0 Ω 601 - 6000 Ω
	Accuracy	1% ± 5 counts	1% ± 5 counts	$1.5\% \pm 5$ counts	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts
	Continuity	≤ 30 Ω	≤ 30 Ω	≤ 30 Ω	≤ 30 Ω	≤ 30 Ω	≤ 30 Ω	≤ 30 Ω
	Range	_	_	-	_	-	_	5.0 - 400.0 Hz
	Accuracy	_	_	_	_	_	_	0.5% ± 5 counts
Hz	Trigger Level	_	_	_	_	_	_	10 - 100 Hz ≥ 5 A 5 - 10 Hz, 100 - 400 Hz ≥ 10 A
	MIN/MAX	No	No	No	No	No	No	Yes
	Backlight	No	No	No	No	Yes	Yes	Yes
D	Display Hold	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Height	7.5"	7.5"	9.375"	9.375"	9.375"	9.875"	9.875"
Size	Width	2.5"	2.5"	3.125"	3.125"	3.125"	3.125"	3.125"
	Depth	1.4"	1.4"	1.625"	1.625"	1.625"	1.625"	1.625"
	Jaw Opening	1" (25.4 mm)	1" (25.4 mm)	1.2" (30.5 mm)	1.2" (30.5 mm)	1.2" (30.5 mm)	1.2" (30.5 mm)	1.2" (30.5 mm)
Ma	ax. Wire Size	500 MCM	500 MCM	750 MCM	750 MCM	750 MCM	750 MCM or two 500 MCM	750 MCM or two 500 MCM
	Weight	8 oz.	8 oz.	11 oz.	11 oz.	11 oz.	11 oz.	11 oz.

## **Models 321 and 322**

**Operating temperature** 

-14 °F to 122 °F (-10 °C to 50 °C) Altitude

2,000 meters **Battery life** 

(2) AAA carbon zinc approximately 100 hours continuous, automatic low battery indicator

**Safety rating** IEC 1010-2-031, 600 V CAT III

Temperature de-rating  $< 18 \,^{\circ}\text{C}, > 28 \,^{\circ}\text{C}$  add  $0.1 \,^{\circ}\text{x}$ specified accuracy / °C

**Storage temperature** -22 °F to 140 °F (-30 °C to 60 °C)

Warranty Two years Models 333, 334, 335, 336 and 337

**Operating temperature** 

-14 °F to 122 °F (-10 °C to 50 °C)

Altitude

2,500 meters

**Battery life** 

(2) AA alkaline approximately 150 hours continuous, automatic low battery indicator

**Safety rating** 

IEC 1010-2-031, 600 V CAT III

**Temperature de-rating** 

Add 0.1 x specified accuracy for each °C above 28 °C or below

Storage temperature -40 °F to 140 °F (-40 °C to 60 °C)

Warranty Three years

## **Need Technical Assistance?**

Call 1-800-44-FLUKE toll free in the U.S. or (800) 36-FLUKE in Canada or (425) 446-5500 in other countries.



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