# Four Things to Consider When Buying a Clamp Meter

Choose a clamp that gives accurate and repeatable results

Does your clamp report the true-rms reading?

Is the problem with your motor or your clamp?

## Make sure your clamp meter is working for you, not against you.

Imagine that you have spent the whole day troubleshooting a problem with a motor only to discover that the problem wasn't really the motor, but the clamp you were using to measure it. You stake your reputation on your ability to get the job done, be sure your clamp meter is working for you not against you.

First, make sure your clamp meter reports the true-rms reading. Otherwise noise from everything including a variable frequency drive to compact fluorescent bulbs can result in a less accurate reading. 2 Make sure the clamp meter works where you do

Have you ever dropped your clamp? Do you use your clamp outside? Ever used you clamp to pry apart wires?

## If so, make sure you clamp can work where and how you do.

Making accurate and repeatable results in a laboratory is a good start. But you don't always work in a clean and controlled environment. Before making a purchase, check whether the clamp is specified to work in the environment you do.

Be sure you don't buy a clamp specified for indoor use only or with a minimum operating range warmer than 15 °F if you think you might need to make measurements outside. If the clamp isn't designed for the outdoors the measurements you get might not be accurate.

Finally be sure the clamp you are using is rugged enough to continue to give reliable results after years of prying wires apart, drops from ladders and bouncing around the back of your truck.



### Don't compromise on safety

Does the clamp have the correct rating for the work you are doing?

Can you use the meter easily when wearing personal protective equipment?

### If the answer is no, you could be in danger.

Your test and measurement tools are a critical barrier between you and danger. They are quite literally an extension of your body into a very dangerous environment. First things first, be sure you choose a clamp meter with an appropriate category rating for the work you are doing.

Second, choose a brand with a reputation for providing safe and reliable test equipment. Anyone can buy a clamp meter and put their brand on it. Only a few manufacturers design, build and test their own equipment to exceed international safety standards.

Finally, your clamp meter is part of a safety system that includes personal protective equipment (PPE). In addition to having the right PPE, be sure that you can easily operate your test and measurement equipment with that gear in place.



When choosing features, pick quality over quantity

**FLUKE** 

Not using all the features on your clamp meter?

## If so, you could be wasting money and functionality.

These days you can get almost anything built into a clamp meter (tape measure anyone?). The more gadgets that are built into a clamp meter, the harder it becomes to use and the worse it performs. Instead of trying to get the most features possible, chose a meter that has the measurement functions you need to get the job done, without any of fluff that doesn't make sense. Plus, you don't end up paying for features irrelevant to the job at hand.

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325.0

FLUKE 325 THUE HMS CLAMP METE

### Fluke 325

Big ac/dc features in a small form factor.

#### **Measurement capability:**

- 400 A ac and dc current measurement
- 600 V ac and dc voltage measurement • True-rms ac voltage and current for accurate measurements on
- non-linear signals
- Resistance measurement up to 40 k $\Omega$  with continuity detection
- Temperature and capacitance measurement
- Frequency measurement
- Min/Max functionality
- Slim, ergonomic design
- CAT IV 300V/CAT III 600 V
- safety rating
- Hold button
- Two-year warranty
- Soft carrying case

### **Technical specifications**

**AC current** Range Accuracy 40.00 A 2 % ± 5 digits (45 Hz to 65 Hz) 2.5 % ± 5 digits (65 Hz to 400 Hz) 400.0 A **AC voltage** Range Accuracy 600.0 V 1.5 % ± 5 digits **DC Current** Range Accuracy 40.00 A 400.0 A  $2\% \pm 5$  digits 400.0 A 2 % ± 5 digits DC voltage 1.0 % ± 5 digits 600.0 V Resistance Range Accuracy 400.0 Ω 1.0 % ± 5 digits 4000 Ω 40.00 kΩ ≤ 30 Ω Continuity 100.0 µF to 1000 µF Capacitance 5.0 Hz to 500.0 Hz Frequency Backlight Yes Data hold Yes -10.0 °C to 400.0 °C (14.0 °F to 752.0 °F) Contact temperature Min/Max Yes CAT III 600 V, CAT IV 300 V **Category rating** 



### **Fluke 323**

The best option for general, grab-and-go troubleshooting needs.

#### **Measurement capability:**

- 400 A ac current measurement • 600 V ac and dc voltage measurement
- True-rms ac voltage and current for accurate measurements on non-linear signals
- Resistance measurement up to 4000  $\Omega$  with continuity detection

#### Features:

- Slim, ergonomic design
- CAT IV 300V/CAT III 600 V safety rating
- Hold button
- Two-year warranty
- Soft carrying case

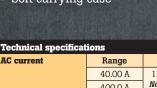




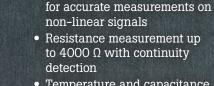


FLUKE 323 TRUE RMS CLAMP METE

<b>Technical specificat</b>	tions	
AC current	Range	Accuracy
	400.0 A	2 % ± 5 digits (45 Hz to 65 Hz) 2.5 % ± 5 digits (65 Hz to 400 Hz)
AC voltage	Range	Accuracy
	600.0 V	1.5 % ± 5 digits
DC voltage	Range	Accuracy
	600.0 V	1.0 % ± 5 digits
Resistance	Range	Accuracy
	400.0 Ω	1.0 % ± 5 digits
	4000 Ω	
Continuity	≤ 70 Ω	
Data hold	Yes	
Category rating	CAT III 600 V,	CAT IV 300 V



Range	Accuracy	
40.00 A	1.5 % ±5 digits (45 Hz to 400 Hz)	
400.0 A	Note: Add 2 % for position sensitivity	
Range	Accuracy	
600.0 V	1.5 % ± 5 digits	
Range	Accuracy	
600.0 V	1.0 % ± 5 digits	
Range	Accuracy	
400.0 Ω	1.0 % ± 5 digits	
4000 Ω		
≤ 30 Ω		
100.0 µF to 1000 µF		
Yes		
Yes		
-10.0 °C to 400.0 °C (14.0 °F to 752.0 °F)		
CAT III 600 V, CAT IV 300 V		
	40.00 Å 400.0 Å <b>Range</b> 600.0 V <b>Range</b> 600.0 V <b>Range</b> 400.0 Ω ≤ 30 Ω 100.0 μF to 10 Yes Yes -10.0 °C to 40	



**Fluke 324** 

**Measurement capability:** 

• 400 A ac current measurement

• True-rms ac voltage and current

600 V ac and dc voltage measurement

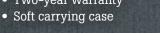


General electrical measurements with temperature and capacitance capabilities.



- **3240**
- Hold button
- Two-year warranty

safety rating





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FLUKE

3240

"F/"C AC/DC

### Fluke 320 Series **True-rms Clamp Meters**

