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Motor Problem or Meter Problem?

When performing voltage and current measurements for power testing or current signature analysis, careful attention must be given to the current probe range selector switch, if available. Many of the clamping current probes offer more than one range like 10 amps and 100 amps. Additionally, these probes are often designed and built with a burden resistor resulting in an mV output from the current probe. If the wrong position is selected on the current probe a relatively large mV output may exceed the maximum input voltage of the test device resulting in irregular or clipped current measurements and displayed signals. So remember, if you are measuring 100 amps on a 10 amp scale you might think you have a motor problem...but you probably have a meter problem.

Did you know that PdMA has Case Study videos on their website? To view the latest video titled *Rogue Robots* go to http://www.pdma.com and click on the Robot Button.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or lou@pdma.com.

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