



A Leader in Electric Motor Testing

# Tip Of The Week

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## Insulation Resistance Profiling

As new technology comes available, standards must be updated to accommodate the new technologies. One of the most heavily used standards is the IEEE43 standard. A new revision to that standard has been published and is known as IEEE43-2013. There are a couple of major changes to the standard incorporating new technologies. One of these changes is the addition of Insulation Resistance Profiling (IRP) in Annex D of the new revision IEEE43-2013. As many of you know, the IRP provides a graphical representation of the insulation resistance over a given time period (typically ten minutes). Through a subjective analysis of this graphical representation, you may be able to obtain additional information as to the condition of the insulation system especially when the insulation resistance exceeds 5000 Megohms. This has been made possible through the advancement in higher resolution metering capabilities and very low ripple power supplies combined with discreet sampling at five second intervals during the ten minute test. You can view an IRP in MCEGold® when performing a standard Polarization Index (PI) test.

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](mailto:lou@pdma.com).

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