

9 April, 2009

From: Scott P. Chapman
Radiant Technologies, Inc.
To: Precision LC and Premier II Tester Owners

Subj: LC and Premier II Tester Internal High-Voltage Amplifier

Dear Precision LC and Premier II Owner,

Your Precision LC or Premier II Tester comes equipped with a ± 100.0 -Volt or ± 200.0 -Volt internal amplifier. Any measurement of magnitude greater than 10.0 Volts will switch that amplifier into the drive voltage signal path. Any measurement of less than 10.0 Volts will not make use of the amplifier. For measurements less than 10.0-Volts, the amplifier power may be turned off to reduce system parasitic noise.

To turn the internal amplifier on or off, disconnect any samples from the tester DRIVE and RETURN ports. Then, in the Vision menu, select Tools->Enable Internal Amplifier (**Figure 1**). The amplifier state will be toggled from on to off or from off to on. The current state is “on” if the Tools->Enable Internal Amplifier is checked. If it is not checked, the state is “off”. In **Figure 1**, the amplifier is enabled and selecting the option will cause it to be disabled.

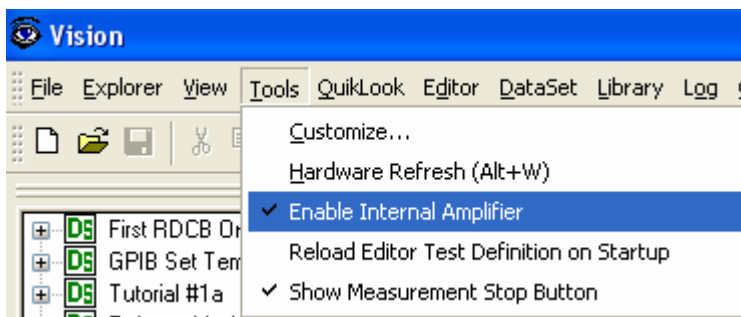


Figure 1 - Enable or Disable the Internal Amplifier.

When the amplifier is enabled or disabled, a twelve-second uninterruptable delay will occur, accompanied by a progress dialog as in **Figure 2**. (Note that Figure 2 shows a delay of 12 second. That delay has been modified to 5 seconds.) This delay allows the system to settle at the new powered-on or powered-off state. Allow this dialog to terminate before attaching any samples to the system DRIVE or RETURN ports.

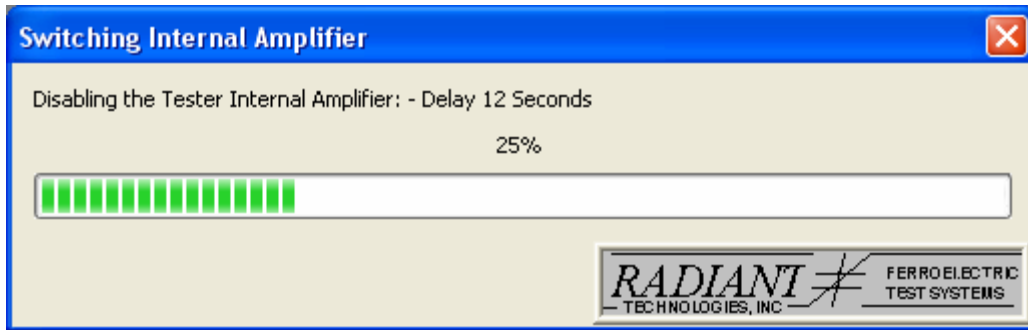


Figure 2 - Twelve-Second Amplifier Disable Delay.

When Vision is first started, the amplifier will be set to the state in which it was left when Vision was last shut down. The delay dialog of **Figure 2** will be presented immediately after the tester selection dialog that appears on Vision startup.

Please note that if a measurement of magnitude greater than 10.0 Volts is attempted with the amplifier turned off, the measurement will be presented as zero-valued data with error 54 specified.

Good luck in your research,

Sincerely,

Scott P. Chapman
Computer Engineer