Subject: Re: Smith and Larson - Speaker Tester
Posted by Keith Larson on Sat, 07 Jan 2012 15:27:44 GMT
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Look in the main directory for WTPRO_USERGUIDE.PDF and WTPRO_QUICKGUIDE.PDF. The help file is the same PDF that opens from the programs Help pull down or F1 hot-key and the quick guide shows some very basic tests. It also reinforces the idea that you can save and restore the state of the tester. Basically an easy way to share data, tester setup, or a demo.

One of the things you want to keep in mind about audio testing is that in almost all cases two measurements are being compared. In general the measurement and reference are picked from the first tab of the signal control window. For example,

Impedance = Voltage/Amperage
- o LoZP and HiZP will automatically set this up

SpeakerResponse = ResponseFromSpeaker/ResponseWhatWentToSpeaker
- o We also want dB, so this becomes dB(A/B) where
  - A = the microphone signal
  - B = Line signal going to your amplifier (flat response assumed)

Or, optionally for a WTPRo, the HiZP voltage, the actual signal into the speaker.

Notes:
The Line in-out patch cords are normally left connected providing the 'B' side of the equation mentioned above. Removing the patch cord allows other devices to be connected or tested. IE, external pre-amps.

If you are wondering about signal routing or levels, open the FFT/OSC window. The spectrum analyzer is a great way to see whats happening. For example, an open circuit in the LoZP will produce a square wave that is full of harmonics.

Hope this helps,
Best regards,
Keith Larson
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