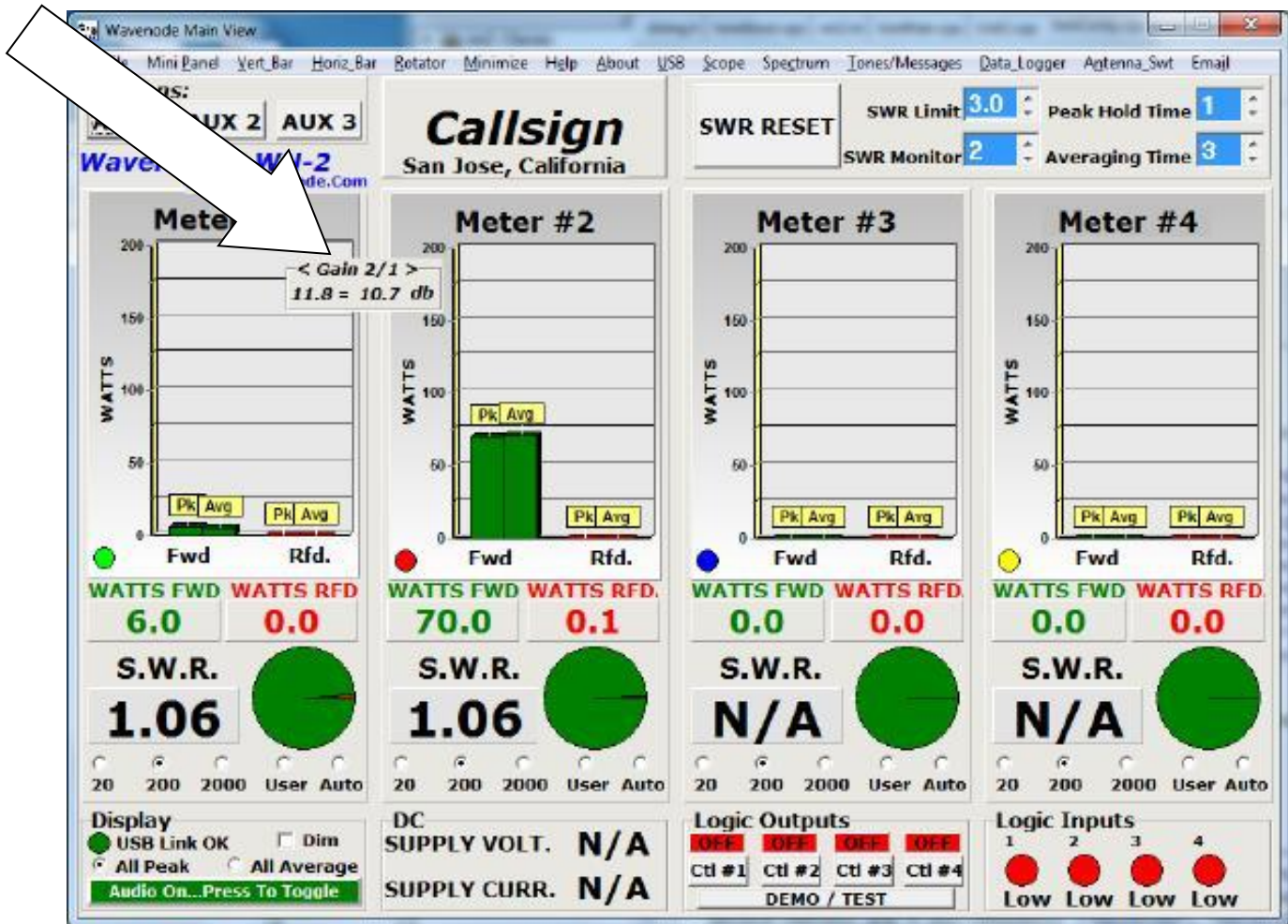


What is the SmartGain Feature in the Wavenode Software?

Rev.1



BRIEF:

The SmartGain addition provides continuous gain monitoring of an external RF power amplifier. Sensor #2 should be attached to the amplifier output and Sensor #1 attached to the amplifier input.

DETAILS:

Connect two appropriate Wavenode inline sensors on the amplifier input and output. Typically, these would be the HF-1 sensors for a typical HF amplifier, but can be any combination of sensors the customer needs.

The gain 2/1 will be shown in the SmartGain panel. A single CW dit or any modulation mode will give accurate results. Of course you can use this feature to observe the gain (or loss) of any amplifier or tuner by placing sensors 1 and 2 at their input and output port.

The sample view above shows a typical HF amplifier with gain = 11.8 (10.7 db). Sensor #2 is at the amplifier output, sensor #1 is on the amplifier input.

If you do not wish to use this feature, you can hide the gain block with a checkbox selection on the software configuration menu shown below:

Configuration File Editor

Main Form

Select Sensor Type

Meter #1 Title: Meter #1 LP-1 HF1/UHF1 8 KW SHF User Meter #1 Range: 1000

Meter #2 Title: Meter #2 LP-1 HF1/UHF1 8 KW SHF User Meter #2 Range: 1000

Meter #3 Title: Meter #3 LP-1 HF1/UHF1 8 KW SHF User Meter #3 Range: 1000

Meter #4 Title: Meter #4 LP-1 HF1/UHF1 8 KW SHF User Meter #4 Range: 1000

You Callsign: San Jose, California User Control One Title: Ch #1

Bargraph (Watts): 1500 User Control Two Title: Ch #2

User Control Three Title: Ch #3

User Control Four Title: Ch #4

Logic Input Label

Logic Input #1: 1

Logic Input #2: 2

Logic Input #3: 3

Logic Input #4: 4

Show 2/1 Gain Box

Check to Show Gain Box

Show DC Voltage/Current

Check to Show DC Inputs

Average Power Method

Weighted Peak Value

Averaged Waveform Calc.

Aux #1 Form

Meter #1 Title: Aux #1 Vertical Scale: 20 Vertical Label: volts Scale Factor: 1

Meter #2 Title: Aux #2 Vertical Scale: 20 Vertical Label: volts Scale Factor: 1

Meter #3 Title: Aux #3 Vertical Scale: 20 Vertical Label: volts Scale Factor: 1

Meter #4 Title: Aux #4 Vertical Scale: 20 Vertical Label: volts Scale Factor: 1

Tones/Messages Button Labels

Message #1 Text: Message #1 Message #3 Text: Message #3 Message #5 Text: Message #5

Message #2 Text: Message #2 Message #4 Text: Message #4 Message #6 Text: Message #6

Save **Close** **WaveNode WN-2**