

# MANUAL NOISE INSTRUMENTS



The NW-MI series is an economical and rugged manual noise instrument suitable for many applications. Applications for this instrument include system and component wireless testing, signal simulation, HDTV and CATV testing as well as use as a general purpose test source and as an economical source for bit error rate testing.

The instrument is supplied in a half rack case and comes with a front panel rotary attenuator to vary the output level.

### Specifications:

Output: White Gaussian Noise  
 Impedance: 50 Ohms  
 Output Connector: SMA female  
 Noise Attenuator: 10 dB overall in 1 dB steps.  
                           Models above 2 GHz are 9 dB overall in 1 dB steps  
 AC Power: Standard line voltages (100 - 240Vac, 50 - 60Hz, 1.25A)  
 Operating temperature: -20°C to +75°C

Options include a combiner to allow the user to inject a signal to be added to the noise, various connectors and noise attenuators. Other output levels and frequency ranges are also available. Please contact NoiseWave to discuss your specific requirements.

MODEL	FREQUENCY RANGE	OUTPUT POWER (dBm)	FLATNESS (dB)
NW100M-MI	1 MHz - 100 MHz	+13	+/- 1.0 max
NW300M-MI	1 MHz - 300 MHz	+10	+/- 1.0 max
NW500M-MI	1 MHz - 500 MHz	+10	+/- 1.5 max
NW1G-MI	1 MHz - 1 GHz	+10	+/- 2.0 max
NW1.5G-MI	1 MHz - 1.5 GHz	+10	+/- 2.0 max
NW2G-MI	1 MHz - 2 GHz	0	+/- 2.0 max
NW3G-MI	10 MHz - 3 GHz	0	+/- 2.5 max
NW4G-MI	10 MHz - 4 GHz	-10	+/- 2.5 max
NW6G-MI	10 MHz - 6 GHz	-10	+/- 2.5 max
NW10G-MI	10 MHz - 10 GHz	-10	+/- 2.5 max
NW18G-MI	2 GHz - 18 GHz	-14	+/- 2.5 max
High Power Output			
NW2.7G-HP-MI	10 MHz - 2.7 GHz	+30	+/- 2.5 max

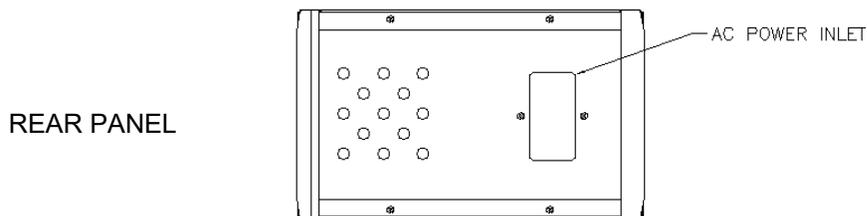
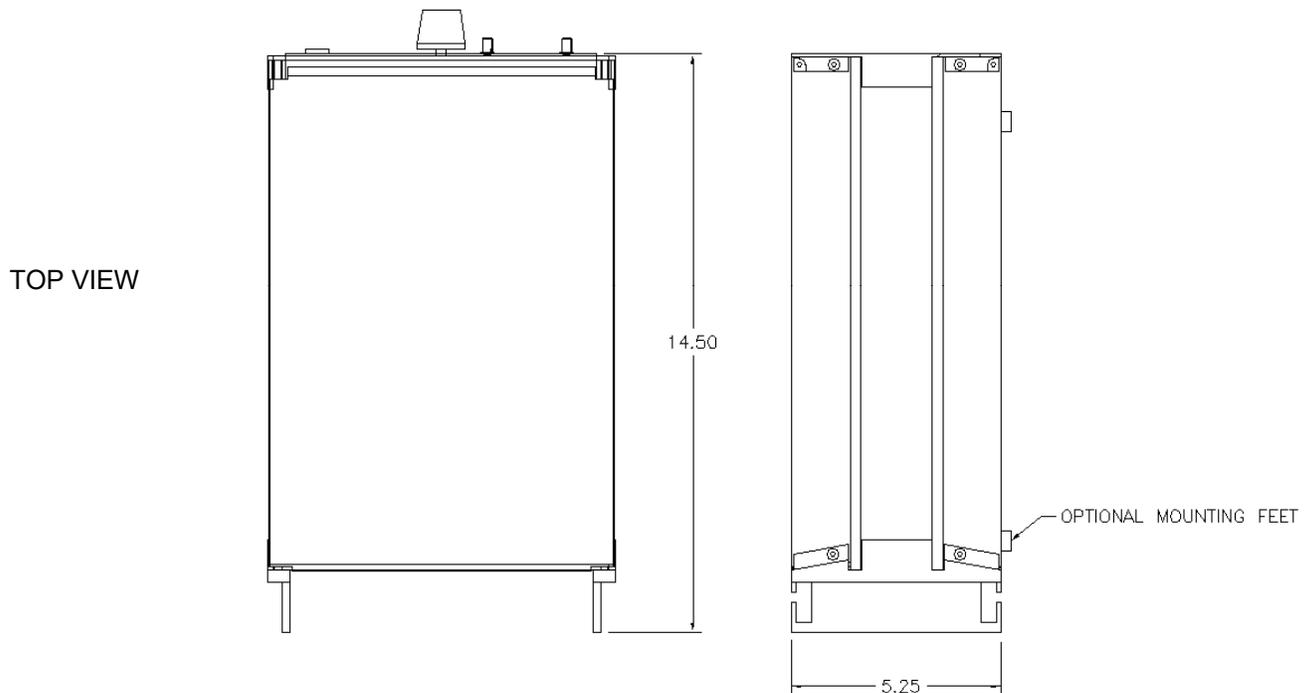
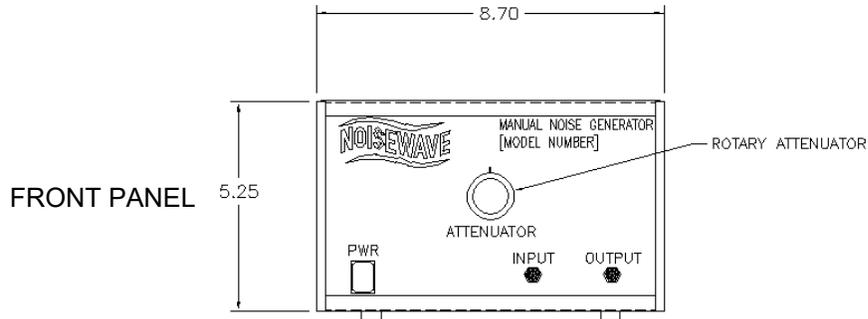
### OPTIONS:

C: Combiner for input signal (6 dB loss)  
 N: N female output connector  
 BNC: BNC jack output connector  
 75: 75 Ohm impedance  
 100: Replace 1 dB/ step with 10 dB/step 100 dB overall attenuator \*  
 110: Add a 10 dB/ step attenuator for 110 dB attenuation in 1 dB steps\*\*  
 RM: Rack Mount

\* For models above 2 GHz, use option 60:  
 60: Replace 1 dB/ step with 10 dB/ step 60 dB overall attenuator  
 \*\* For models above 2 GHz, use option 69:  
 69: Add 10 dB/ step attenuator to 69 dB overall attenuation in 1 dB steps

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(DIMENSIONS IN INCHES)

**STANDARD MODEL SHOWN. CONTACT THE FACTORY FOR DETAILS REGARDING OPTIONS AND THE OUTLINE DRAWING AFFECTED BY THOSE OPTIONS.**

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