

**HANDHELD BROADBAND NOISE GENERATOR**



**NS-1  
RF Noise Generator  
for Testing and  
Aligning**

**T**he NS-1 is a handheld broadband noise generator. It generates a wide, even, RF noise signal. The NS-1 is popular for testing network components and aligning a building's coaxial cable network.

The NS-1's signal is injected into the network at point A. Using a signal receiver, such as a spectrum analyzer or a signal level meter (i.e. Applied Instruments' Super Buddy, AI Turbo S2, or VSAT 7850), the NS-1's signal is received at point B.

The frequency response of the network, between points A and B, is obtained. This measurement allows the user to verify the RF integrity of cabling and it's associated connections at all frequencies between 5 and 2150 MHz.



**"Reliability through Simplicity"**

# NS-1

# RF Broadband Noise Generator

## APPLICATIONS

- Signal source for measuring insertion loss of cable splitters, taps, etc.
- Signal source for system alignment, troubleshooting, and problem tracing.

RF Output  
(Field Replaceable)

On/Off Switch  
With Guard

- Continuous On
- Off
- Momentary On

Low Battery  
LED



ACTUAL SIZE

## FEATURES

- Cost effective
- Compact and convenient handheld design
- Field replaceable "F" connector
- Signal drops out with low battery (no sagging)

## STANDARD ACCESSORIES

- Padded carrying case with belt clip
- Spare 9V battery

## ORDERING INFORMATION

- VISA, MasterCard, Amex, Discover accepted

## SPECIFICATIONS

RF Signal Type ..... White Noise energy, Constant Spectral Density  
Frequency Range ..... 5 to 2150 MHz

### Maximum Output Level (at least)

Total ..... -100 dBm/Hz, -6.7 dBm, +42 dBmV, +102 dB $\mu$ V  
280 kHz bandwidth ..... -52 dBm, -3 dBmV, +56 dB $\mu$ V  
24 MHz bandwidth ..... -26 dBm, +22 dBmV, +87 dB $\mu$ V  
6 MHz bandwidth ..... -32 dBm, +17 dBmV, +77 dB $\mu$ V

### Amplitude Output Flatness

5 to 46 MHz .....  $\pm 0.5$  dB  
46 to 860 MHz .....  $\pm 1.0$  dB  
950 to 1450 MHz .....  $\pm 1.0$  dB  
1550 to 2000 MHz .....  $\pm 2.0$  dB  
5 to 2150 MHz .....  $\pm 2.5$  dB

Output Impedance ..... 75  $\Omega$   
Operating Temperature ..... 0 $^{\circ}$  to 120 $^{\circ}$ F (-18 $^{\circ}$ C to +50 $^{\circ}$ C)  
DC Power ..... 9V alkaline battery  
Operation Time per Battery .. 15 hours continuous  
Low Battery Indicator ..... LED flashes during last 10% of battery life  
Low Battery Cutoff ..... Turns off signal when battery is insufficient  
Enclosure Type, Size, Weight ABS Plastic, 2.4"W x 4.7"H x 0.9"D, 4 oz.  
(6.1 cm) x (11.9 cm) x (2.3 cm), 113 g

REV 3.3.14

Specifications subject to change without notice.