



**APPLIED INSTRUMENTS, INC.**

TELECOMMUNICATIONS INSTRUMENTATION

## **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 signal level meter or spectrum analyzer like Applied Instrument's SAT 9520 or MDU Meter, 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 integrity of cabling and its associated connections at all frequencies between 1 and 2000 MHz.

# **Noise Generator Model NS-1**

**1-2000 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 ..... 1 to 2000 MHz

Amplitude Output Level

- dBm/Hz ..... -113.52
- Received through a 280 kHz receiver ..... -10 dBmV (+50 dBμV)
- Received through a 24 MHz receiver like typical DBS satellite tuners ..... -39 dBm (+10 dBmV) (+70 dBμV)

Amplitude Output Flatness

- 1 to 46 MHz ..... ± 0.5 dB
- 46 to 860 MHz ..... ± 0.75 dB
- 950 to 1450 MHz ..... ± 1.0 dB
- 1550 to 2000 MHz ..... ± 2.0 dB
- 1 to 2000 MHz ..... ± 2.5 dB

Output Impedance ..... 75Ω

Operating Temperature Range .. 0°F to 120°F (-18°C to +50°C)

Power DC ..... 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.  
(6.1cm) x (11.9cm) x (2.3cm), 113 g

Specifications subject to change without notice.