



APPLIED INSTRUMENTS, INC.

RF TEST AND MEASUREMENT

NS-1 RF Noise Generator for Testing and Aligning

The 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 its associated connections at all frequencies between 5 and 2150 MHz.

Noise Generator Model NS-1

5-2150 MHz



"Reliability through Simplicity"

NS-1

RF Broadband Noise Generator

APPLICATIONS

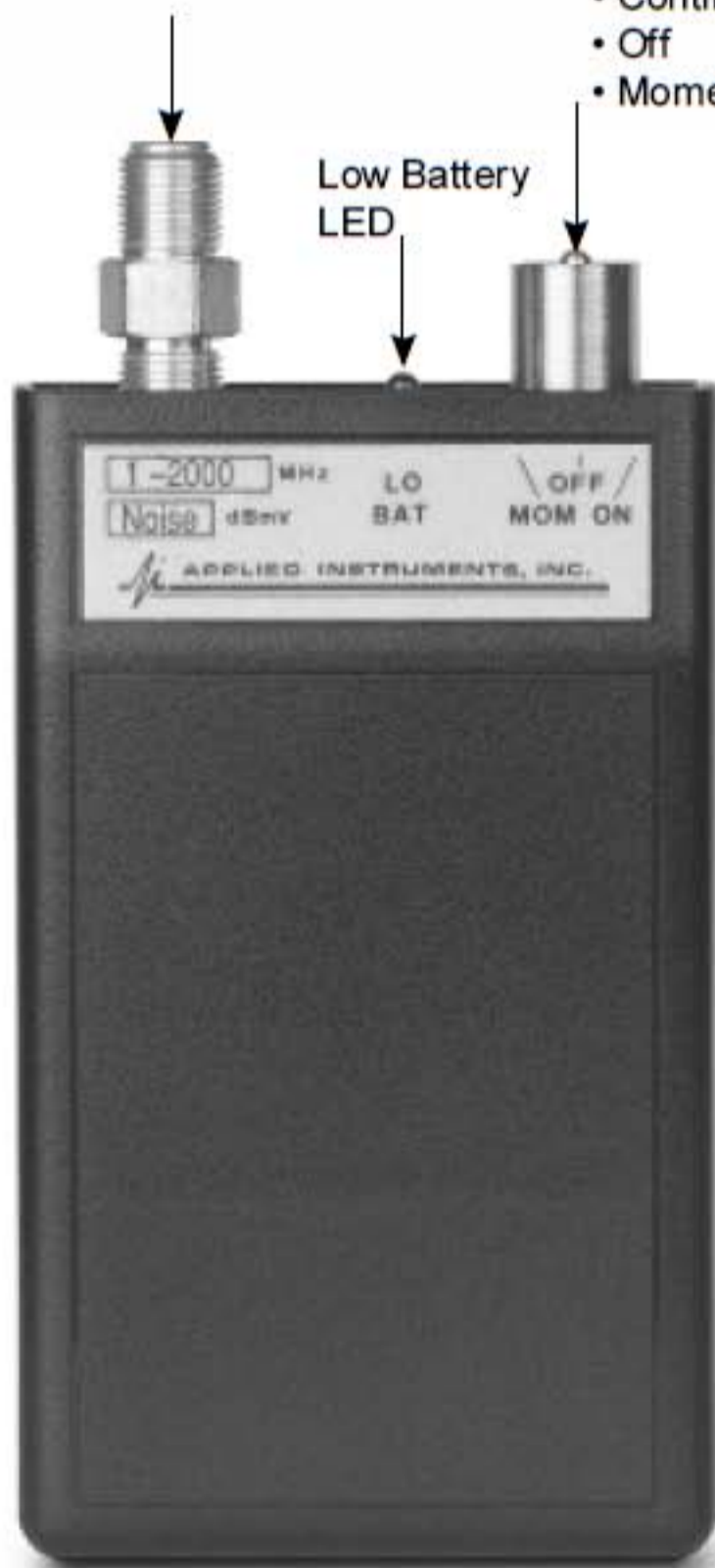
- Signal source for measuring insertion loss of cable splitters, taps, etc.
- Signal source for system alignment, troubleshooting, and problem tracing.

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 μ V
280 kHz bandwidth -52 dBm, -3 dBmV, +56 dB μ V
24 MHz bandwidth -26 dBm, +22 dBmV, +87 dB μ V
6 MHz bandwidth -32 dBm, +17 dBmV, +77 dB μ V

Amplitude Output Flatness

5 to 46 MHz ± 0.5 dB
46 to 860 MHz ± 1.0 dB
950 to 1450 MHz ± 1.0 dB
1550 to 2000 MHz ± 2.0 dB
5 to 2150 MHz ± 2.5 dB

Output Impedance 75 Ω
Operating Temperature 0° to 120°F (-18°C to +50°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.

5230 Elmwood Ave.
Indianapolis, Indiana 46203 USA
Tel: (317) 782-4331 Fax: (317) 786-9665
Toll Free in USA: 1-800-244-2976

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