



Sat Buddy™ Satellite Meter

The Sat Buddy™ satellite meter measures relative RF signal strength. It is ideal for aligning the dish antenna. The LNB can be powered from the IRD set-top-box through the Sat Buddy™ or from the Sat Buddy's™ internal battery. The Sat Buddy's™ ease of use and durable construction make it the ideal basic meter for satellite installers.

SAT 9520™ Satellite Signal Level Meter

The SAT 9520™ is Applied Instruments' finest satellite signal level meter. It simultaneously displays signal strength, the familiar IRD signal quality value, bargraphs for signal peaking, carrier-to-noise for optimizing cross-polarization, and bit-error-rate for obtaining maximum rain-fade margin. The SAT 9520™ positively identifies many of the DBS, Ku, and C-Band satellites. This simplifies the receive portion of two-way broadband and VSAT installations. The SAT 9520™ is an excellent alternative to a laptop computer or a spectrum analyzer for locating the correct satellite, especially outside in the elements or on a rooftop. The SAT 9520™ is ideal for the satellite professional who is serious about quality installations and troubleshooting.



“MDU Meter” DBS, CATV, VHF/UHF, MMDS

The MDU is the most versatile signal level meter available. It is well suited for those installing or maintaining private cable systems comprised of satellite, cable TV, VHF/UHF, or MMDS signals. It tunes to and measures analog and digital signals from 5 MHz to 2.15 GHz. Applied Instruments also offers meters that are similar in configuration to the MDU Meter, such as:

- Model 715i (46-860 MHz) VHF/UHF and CATV
- Model 819i (1-860 MHz) VHF/UHF and CATV
- Model 2020.QAM (46-860 MHz) VHF/UHF and MMDS (digital and analog)

NS-1 Broadband Noise Generator

The NS-1 handheld broadband noise generator 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 injects a signal into the cable network or device-under-test (DUT) at point A. Using a signal receiver such as a spectrum analyzer or signal level meter (like the SAT 9520™ or MDU meter) the NS-1's signal is measured at point B. This frequency response measurement (between 1-2000 MHz) indicates the network's or DUT's flatness and ability to conduct RF signal. Applied Instruments also offers CW signal generators in one-carrier (Model PC-1), two-carrier (Model PC-2), four-carrier (Model 5112) and six-carrier (Model 5112-6) configurations.





Sat Buddy™ Satellite Meter 950-2150 MHz

FEATURES

- Economical and easy to use
- Rugged metal enclosure
- Compact, weather resistant design
- Internal rechargeable battery
- Strong audible tone, allowing dish alignment by sound
- Bright LED display, easy to read even in direct sunlight
- Sat Buddy™ and LNB can be powered from battery or IRD

MEASUREMENTS

- Signal strength (relative RF energy 950 to 2150 MHz)
- LNB current draw (mA)
- Voltage supplied by set top IRD
- Internal battery voltage



SAT 9520™ Satellite Signal Level Meter 950-2150 MHz

FEATURES

- Durably constructed and field portable
- Identifies most satellites
- Powers single and multi-LNB dishes
- Controls most multi-switches
- Tunable to individual transponder frequencies for standard (950-1450 MHz) and stacked (950-2050 MHz) systems
- Strong, fast-charge, internal battery
- Audible tone for aligning dish
- Interfaces to computer for future software upgrades

MEASUREMENTS

- Signal level (dBm, dBmV, dBuV) with present and peak bargraphs
- Signal quality, familiar IRD equivalent value with present and peak bargraphs
- Carrier to noise ratio (C/N, Eb/No Es/No)
- Bit-error-rate (BER), pre and post FEC
- Transponder scan with min/max summary
- LNB frequency deviation estimate (kHz or MHz)



MDU Signal Level Meter (DBS, CATV, VHF/UHF, MMDS) 5-860, 950-2150 MHz

FEATURES

- Field portable, compact, rugged design
- Tunable to individual frequencies/channels
- Strong rechargeable internal battery
- Able to power LNB (13 or 18V)
- Several channel plans (off-air, CATV, L-Band regular and stacked)
- Custom channel plans available upon request

MEASUREMENTS

- Analog and Digital (QAM & QPSK) signals
- Carrier-to-Noise
- Channel Scan across entire band and displays the difference (dB) between strongest and weakest signal
- Inner-Channel Scan of a single digital signal and displays the unflatness (dB)



NS-1 Broadband Noise Generator 1-2000 MHz

FEATURES

- Cost effective
- Compact handheld design
- Field replaceable "F" connector
- Signal drops out with low battery (no sagging)
- ± 2.5 dB flatness, 1-2000 MHz

APPLICATIONS

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