



APPLIED INSTRUMENTS, INC.

RF TEST AND MEASUREMENT

The AI Turbo S2's extreme ruggedness, husky battery, ease of use, and versatility, make this the ideal meter for professional satellite technicians.

A "must have" for those who value time-saving tools and demand quality, the AI Turbo S2 is packed with features and capabilities. From satellite identification to recording performance tests, you can install and troubleshoot the most demanding jobs quickly and with confidence.

The AI Turbo S2 is well suited for VSAT, Broadcasters, CATV Headends, Teleport and DBS / DTH (single and multi-dwelling) applications.

For more than a decade installers have counted on Applied's popular meters: MDU, SAT 9520, Sat Buddy, and Super Buddy. The legacy continues as the new AI Turbo S2 raises the bar even higher.

AI Turbo S2 Satellite Meter



"Reliability through simplicity."

AI Turbo S2 Satellite Meter

FEATURES

- Satellite ID by “align-to-lock” or “automatic scan”
- ID multi-lock algorithm eliminates false positives
- Powers LNBs and multi-switches
- L, C, X, Ku, or Ka band applications
- High sensitivity assures alignment optimization
- Field replaceable type F barrel connectors
- Rugged durable aluminum case with rubber shock guards
- Geo-sensitive “Field Guide” software stores all compatible satellites and transponders per global region
- Controls multi-LNBs/switches with 22kHz / DiSEqC tone
- Manually tunes to custom transponders using front panel keypad
- Audible tone for signal lock and peak
- Quick charge battery with universal AC or vehicle 12 VDC
- Stores measurements for Proof-of-Performance “PoP Scan”
- “Limit Scan” Pass/Fail for key transponders
- Back-lit graphic LCD screen
- Numeric keypad with arrow key controls
- Rechargeable / Replaceable Li-Ion battery
- USB computer interface for firmware updates
- Operates while charging via AC
- Displays antenna settings (Az/EI/Skew) based on user’s postal code or latitude and longitude coordinates

MEASUREMENTS

- Demodulates DVB-S, DVB-S2, DSS / DIRECTV Legacy, Digicipher 2, and Turbo signals
- Signal Level (dBm, dBmV, or dBμV) with present and peak bargraph
- Signal Quality (IRD, C/N, Eb/No, or Es/No)
- BER (Pre FEC / Viterbi & Post FEC / Reed Solomon) for DVB-S, DSS/DIRECTV Legacy, and Digicipher 2 signals
- Bad blocks, corrected blocks, and frame errors for DVB-S2 and Turbo signals
- Voltage output of IRD
- Current draw of LNB
- LNB frequency deviation (LNB LO drift estimate)
- Symbol Rate error
- Spectrum Screen (frequency on x-axis, amplitude on y-axis)
- Constellation Screen (I and Q values)

STANDARD ACCESSORIES

- Shoulder strap
- Cordura protective flap
- Universal AC switching power supply (100 VAC to 240 VAC Transformer)
- Automobile cigarette-lighter adapter battery charge cord (12V DC)
- PC Download cable (USB)
- Operation Manual
- Splitter (Single Side Power passing, 5-2150 MHz)

SPECIFICATIONS:

Frequency Range	250-750 MHz, 950-2150 MHz
Tuning Resolution	Individual Transponders
Signal Level Range	-75 to -15 dBm (-26 to +34 dBmV) (+34 to +94 dBμV)
RF Level Accuracy	+/- 2 dB typical, 3 dB max
Signal Lock Formats	DVB-S (QPSK), Digicipher 2 (QPSK), DVB-S2 (QPSK & 8PSK), DSS / DIRECTV Legacy (QPSK), Turbo (QPSK & 8PSK)
Impedance	75 Ohm
LNB Power	13VDC for V/R, 18VDC for H/L (current limited at 780mA), 21VDC for DIRECTV SWiM LNBs (current limited at 520 mA), 29VDC for WildBlue TRIAs (current limited at 360 mA)
Switch Control	22 kHz, DiSEqC
Battery	rechargeable Li-Ion, 4400mAh 12.6V Max
Run time/charge	4 hours for a single LNB (depends on LNB current draw)
Universal AC charger	100 to 240 VAC, 50/60 Hz fast charge and then trickle
Vehicle charger	12VDC
Computer Interface	USB
RF Connector	Type F barrel, field replaceable
Size/Weight	7.6”W x 6.7”H x 2.40”D / 3.2 lbs. (without rubber guards)
Operating Temperature	19.3cm x 17.0cm x 6.1cm / 1450 g
Range	-20°F to 120°F (-29°C to 49°C)
Battery Charge	
Temperature Range	41°F to 100°F (5°C to 38°C)
Warranty	12 month limited

Specifications subject to change without notice

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