



**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 Broadcasters, CATV Headend Satellite Antenna Farms, 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."*

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# 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
- Use for L, C, X, Ku, or Ka band applications
- High sensitivity assures alignment optimization
- Field replaceable type F barrel connectors
- Durable aluminum case with rubber shock guards
- Program and store up to 256 custom transponders
- Geo-sensitive “Field Guide” software stores all compatible satellites and transponders per global region
- Controls multi-LNBS/switches with 22kHz DiSEqC tone
- Manually tune to custom transponders using front panel keypad
- Audible tone for signal lock or peak
- Stores measurements for Proof-of-performance "PoP Scan"
- Quick charge battery with universal AC or vehicle 12 VDC
- “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 (CCM), 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 demodulator 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 Data Transfer cable (USB)
- Operation Manual
- Splitter (Single Side Power passing, 5-2150 MHz)

## SPECIFICATIONS:

Frequency Range .....	250-2150 MHz	
Tuning Resolution .....	4 KHz	
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 & OQPSK), DVB-S2 (QPSK & 8PSK CCM), 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 typical 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) .....	19.3cm x 17.0cm x 6.1cm / 1450 g
Operating Temperature	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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## MANUFACTURED BY:



## SALES REPRESENTATIVE:

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