



BIRD® AT SERIES

AT-500 & AT-800

ANTENNA TESTERS

The **Bird AT-Series Antenna Testers** provide a cost-effective, fast, graphical way of determining the quality of mobile and base station antennas.

- Rugged, easy-to-use, hand-held design with extended battery life makes it ideal for use in the field.
- Tests the system in VSWR, Return Loss, Match Efficiency, or Reflection Coefficient (Rho)
- Single frequency readings and frequency sweeps allow for everything from pinpoint tests to system optimization and tuning.
- Can save up to 12 traces for comparison and tracking over time
- RS232 Interface allows communication with a PC for saving traces using the optional software.



Frequency Characteristics:

Frequency Range	AT-500	2 to 520 MHz
	AT-800	806 to 960 MHz
Frequency Resolution	20 kHz	
Frequency Accuracy	± 50 kHz	
Number of points	100	

Measurements:

Rho	0.000 to 1.000
Match Efficiency	0 to 100%
Return Loss	-32 to 0 dB
VSWR	1.00 to 100.00

Measurement Accuracy	Rho ± 0.04
Match Efficiency	Calculated from
Return Loss	Rho accuracy
VSWR	

Test Port:

Connector	N(F) supplied. N, TNC, UHF, BNC, male or female available
VSWR	1.25 max
Directivity	32 dB typical

Measurement Speed:

Single Frequency Point	5 readings per second typical
Frequency Sweep	1 sweep per second typical

Field Strength:

Range	0 to 100%, relative
Sensitivity	Fullscale deflection and 0.22 V/m @ 400 MHz using supplied antenna

PC Interface:

RS-232 protocol via DB-9 port

Power Requirements:

Power Supply	Rechargeable NiCAD battery system. Unit may be re-charged while operating using a wall adapter (included)		
AC Adapter	Input	120/240 Vac	
	Output	12Vdc, < 400 mA	

General Requirements:

Dimensions	8" x 4-5/8" x 1-3/4" (204 x 118 x 42 mm)
Weight	2.0 lbs (0.9 kg)
Temperature, Operating	0 to 50 °C (32 to 122 °F)
Temperature, Storage	-40 to +71 °C (-40 to +160 °F)
Humidity	95% ± 5% max (noncondensing)
Compliance	Unit complies with MIL-T-28800 Class 5 except for temperature and humidity. Unit is CE-compliant and RoHS compliant.

Accessories:

4240-402	Interseries Adapter, N (M)
4240-403	Interseries Adapter, N (F)
4240-404	Interseries Adapter, BNC (M)
4240-405	Interseries Adapter, BNC (F)
4240-406	Interseries Adapter, TNC (M)
4240-407	Interseries Adapter, TNC (F)
4240-408	Interseries Adapter, UHF (M)
4240-409	Interseries Adapter, UHF (F)
4240-410	Interseries Adapter, SMA (M)
4240-411	Interseries Adapter, SMA (F)
5000-030	Soft Carrying Case for Model 5000-EX Digital Power Meter and Antenna Tester (AT) Series
5000-035	Hard Carrying Case for Model 5000-EX Digital Power Meter and Antenna Tester (AT) Series
7000A545	Verification Kit for Model AT-500 Antenna Tester
7000A845	Verification Kit for Model AT-800 Antenna Tester
7000A840	PC software used to upload trace data for analysis, printing or storage.



RF Measurement and Management in Your World



Bird® Technologies Group, consisting of *Bird® Electronic Corporation* and *TXRX Systems®*, is a global, innovative supplier of RF products, systems, services and educational solutions. Bird® Technologies Group reserved the right to modify specifications or discontinue any product without notice.

www.bird-technologies.com 440.248.1200/866.695.4569 sales@bird-technologies.com

808-AT500-10232007