

The Bird's® 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 pinpointests to system optimization and tuning.
- ▶ Can save up to 12 traces for comparison and tracking over time.
- ▶ RS232 Interface allows communication.

## PROBLEMS > SOLUTIONS

Harsh environment

▶ Military grade instrument

Extended field use

▶ Long battery life

Antenna failure

▶ Multiple measures to identify failure mode

## **APPLICATIONS**

Ideal for use when a ruggged field instrument is required to validate, test and troubleshoot antenna systems.

## Antenna Tester

AT-500, AT-800 Series



Frequency Range AT-500 5-520 MHz AT-800 806-960 MHz

Frequency Resolution AT-500 20 kHz

AT-800 30 kHz

Frequency Accuracy AT-500 ±50 kHz

AT-800 ±100 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  $\pm$  0.04

**TEST PORT** 

Connector AT-500 N(F) (TNC, UHF, BNC male or

female adapters available)

AT-800 TNC(F) (N, UHF, BNC male or

female adapters 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** AT-500 Fullscale deflection and 0.22

V/m @ 400 MHz using supplied

antenna.

AT-800 3M @ 12.6 ERP

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)

**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**  $95\% \pm 5\%$  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 or 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-500 Antenna Tester

**7000B840** PC software used to upload trace data for analysis, printing

or storage



