To buy, sell, rent or trade-in this product please click on the link below: http://www.avionteq.com/BIRD-Electronic-Corporation-AT-500-Antenna-Test-Set.aspx



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 pin point tests 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 CHARACTERISTICS

	5-520 MHz 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 ± 0.04

## **TEST PORT**

	N(F) (TNC, UHF, BNC male or female adapters available) 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

## FIELD STRENGTH

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**

Dir	nensions	8″ x 4-5/8″ x 1-3/4″ (204 x 118 x 42 mm)
	Weight	2.0 lbs (0.9 kg)
Temperature, O	perating	0 to 50°C (32 to 122 °F)
Temperature	, Storage	-40 to +71 °C (-40 to +160 °F)
I	Humidity	95% $\pm$ 5% max (noncondensing)
Co	mpliance	Unit complies with MIL-T-28800 Class 5 except for temperature and humidity. Unit is CE-compliant and RoHS compliant
ACCESSORIES		
4240-402	Interserie	s 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		ying Case for Model 5000-EX Digital eter and Antenna Tester (AT) Series
7000A545	Verificatio	n Kit for Model AT-500 Antenna Tester
7000A845	Verification Kit for Model AT-800 Antenna Tester	
7000B840		re used to upload trace data for printing or storage



