Model SA-4000 & Model SA-2500A

SITE ANALYZER

MODEL SA-4000 (25 to 4000) MHz & MODEL SA-2500A (780 to 2500 MHz)

Easy-To-Use Cable & Antenna Tester with Digital Power Meter Option

Bird's Site Analyzer® is the user-friendly test solution for installing, maintaining, and troubleshooting your antenna and cable systems. Field engineers and technicians rely on this rugged handheld tool to get the job done. Wireless equipment manufacturers, service providers, and contractors worldwide approve of the analyzer's precision VSWR and Return Loss results. This versatile unit also includes a Digital Power Meter option to accurately measure the output power of your base station.





SITE ANALYZER® Features and Benefits

- Easy to operate and field ready for first-time, occasional and experienced users
- Expanded frequency range of the new Model SA-4000 is 25 to 4000 MHz, the Model SA-2500A is also available for 780 to 2500 MHz applications
- Worldwide systems include Cellular and PCS/DCS with CDMA, GSM, TDMA or AMPS modulation schemes
- Other applications include 3G, Broadcast, Government, Microwave, Paging, Public Safety, Trunking, WLAN and WLL
- Match or Sweep test displays VSWR or Return Loss of the antenna and cable system over the frequency range of interest
- Fault Location or DTF mode indicates VSWR or Return Loss levels at each point along the cable and antenna system length
- Cable Loss function measures insertion loss of the cable system over a given frequency range
- Digital Power Meter option allows base station transmit power readings with the use of a Model 5010 Directional or Model 5011 Terminating Power Sensor
- Accurate and repeatable measurement results in all test modes
- Storage capacity of 300 saved traces and 15 calibrated setups
- Flexible alphanumeric labeling allows 50 characters per trace and also includes quick-text and edit functions
- Industry leading immunity to on-frequency interference for testing at co-located antenna sites
- Color display with bright back lighting for easy viewing under all conditions
- · Fast sweep rate minimizes system downtime requirements
- Operates in temperatures as low as 14°F (-10°C)
- Unlimited trace overlays per report to compare antennas and track performance over time
- Flash feature allows easy firmware upgrades in the field via the internet

Digital Power Meter Option

Digital Power Meter option allows accurate power readings for digital or analog systems including those with CDMA, GSM, TDMA or AMPS modulation

Compatible with the Model 5010 Directional Power Sensor to display forward and reflected power as well as VSWR and Return Loss, DPM elements range from 2 to 2700 MHz

Also compatible with the Model 5011 Terminating Power Sensor to measure power directly or via a coupled test port from 40 to 4000 MHz

Description

SPECIFICATIONS Site Analyzer*

Model SA-4000 (25 to 4000 MHz) Model SA-2500A (780 to 2500 MHz)

25 - 4000 MHz

FREQUENCY SWEEP CHARACTERISTICS SA-4000

Frequency Range: Frequency Resolution:

25 kHz from 25-800 MHz 50 kHz from 800-2500 MHz 100 kHz from 2500-4000 MHz

Sweep Speed: 3 seconds (13ms per data point)

SA-2500A

Frequency Range Frequency Resolution Sweep Speed:

780 - 2500 MHz 50 kHz 4 seconds (17ms per data point)

MEASUREMENT CHARACTERISTICS

Return Loss 0 to -60 dB Test Port N-type female connector Impedance 50

Trace Resolution 238 data points

Immunity to Rejects on-frequency **Interfering Signals** signals up to +13 dBm.

9-pin RS-232 (DB9),

+22 dBm

Maximum Input Signal

PERIPHERAL PORTS Data transfer

compatible with PC serial port.

POWER

Internal Rechargeable Li-Ion batteries. 3 hour minimum operating time. External DC 9 to 16 Vdc, fused External AC

ENVIRONMENTAL

Operating Temperature Storage Temperature Humidity Altitude

FORM FACTOR

Dimensions

Weight

Auto shut-off conserves battery life. 90 to 264 Vac @ 45-66 Hz

-10° to 50° C (14° to 122° F) -40° to 80° C (-40° to 176° F) 95% max., (non-condensing) Up to 15,000 feet (4572 m)

10.5" x 8.5" x 3.2" (267 mm x 216 mm x 81 mm) 5 lbs. (2 kg)



STANDARD ACCESSORIES

The Site Analyzer® includes Carrying Case, Instruction Manual, Serial Cable, PC Tool Software for Windows, AC Power Supply and Automotive Power Adapter.



OPTIONAL ACCESSORIES

Model CAL-MN-B CAL-FN-B CAL-ME-B CAL-FE-B 5011 5010 TC-MNMN-1.5 TC-MNMN-3.0 TC-MNFN-1.5 TC-MNFN-3.0 TC-MNFE-1.5 TC-MNFE-3.0 PA-MNME PA-FNME PA-MNFE PA-FNFE 7002B870 SA-BATPAK

Calibration Combos

Calibration combo, (M) N Calibration combo, (F) N Calibration combo, (M) 7/16 DIN Calibration combo, (F) 7/16 DIN Terminating Power Sensor **Directional Power Sensor** Test cable, 1.5 m., N (M) conn. Test cable, 3 m., N (M) conn. Test cable, 1.5 m., N (M)/N (F) conn. Test cable, 3 m., N (M)/N (F) conn. Test cable, 1.5 m., N (M)/7/16 DIN (F) conn. Test cable, 3 m., N (M)/7/16 DIN (F) conn. Adapter, N (M) to 7/16 DIN (M). Adapter, N (F) to 7/16 DIN (M). Adapter, N (M) to 7/16 DIN (F). Adapter, N (F) to 7/16 DIN (F). Hard shell transit case. External battery pack.

Digital Power Meter Option



DIRECTIONAL POWER SENSOR (MODEL 5010)

The Model 5010 provides customers a TOTAL RF POWER MEASUREMENT SOLUTION for Thruline (In-line) Power Measurements with Accuracy of ±5% of readings.

NEW TERMINATING POWER SENSOR (MODEL 5011)

The Model 5011 provides customers a TOTAL RF POWER MEASUREMENT SOLUTION to measure Base Station Power and/or Broadcast Transmitter Power with Accuracy of ±5% of readings.

www.bird-electronic.com 1-866-695-4569 Bird® Electronic Corporation Bird Service Center Now calibrates NON-Bird as well as Bird electrical test equipment