

Site Analyzer®

Model SA-4000 & Model SA-2500A

SITE ANALYZER®

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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.



Model SA-4000
Site Analyzer®



Model 5010
Directional
Power Sensor

Model 5011
Terminating
Power Sensor

Model SA-2500A
Site Analyzer®

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

SITE ANALYZER®

SPECIFICATIONS

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

FREQUENCY SWEEP CHARACTERISTICS

SA-4000

Frequency Range: 25 - 4000 MHz
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: 780 - 2500 MHz
Frequency Resolution: 50 kHz
Sweep Speed: 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 Interfering Signals: Rejects on-frequency signals up to +13 dBm.

Maximum Input Signal: +22 dBm

PERIPHERAL PORTS

Data transfer: 9-pin RS-232 (DB9), compatible with PC serial port.

POWER

Internal: Rechargeable Li-Ion batteries. 3 hour minimum operating time. Auto shut-off conserves battery life.

External DC: 9 to 16 Vdc, fused
External AC: 90 to 264 Vac @ 45-66 Hz

ENVIRONMENTAL

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

FORM FACTOR

Dimensions: 10.5" x 8.5" x 3.2"
(267 mm x 216 mm x 81 mm)
Weight: 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.



Standard Accessories

Calibration Combos

OPTIONAL ACCESSORIES

Model	Description
CAL-MN-B	Calibration combo, (M) N
CAL-FN-B	Calibration combo, (F) N
CAL-ME-B	Calibration combo, (M) 7/16 DIN
CAL-FE-B	Calibration combo, (F) 7/16 DIN
5011	Terminating Power Sensor
5010	Directional Power Sensor
TC-MNMN-1.5	Test cable, 1.5 m., N (M) conn.
TC-MNMFN-3.0	Test cable, 3 m., N (M) conn.
TC-MNFN-1.5	Test cable, 1.5 m., N (M)/N (F) conn.
TC-MNFN-3.0	Test cable, 3 m., N (M)/N (F) conn.
TC-MNFE-1.5	Test cable, 1.5 m., N (M)/7/16 DIN (F) conn.
TC-MNFE-3.0	Test cable, 3 m., N (M)/7/16 DIN (F) conn.
PA-MNME	Adapter, N (M) to 7/16 DIN (M).
PA-FNME	Adapter, N (F) to 7/16 DIN (M).
PA-MNFE	Adapter, N (M) to 7/16 DIN (F).
PA-FNFE	Adapter, N (F) to 7/16 DIN (F).
7002B870	Hard shell transit case.
SA-BATPAK	External battery pack.

Digital Power Meter Option



Model 5010
Directional Power Sensor



Model 5011
Terminating Power Sensor

DIRECTIONAL POWER SENSOR (MODEL 5010)

The Model 5010 provides customers a TOTAL RF POWER MEASUREMENT SOLUTION for Thru-line (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.

