



Site Master

Site Analyzer

EX Series, Site Analyzer, 780-2500 MHz

- 780-2500 MHz worldwide systems supported include 800 Trunking, APCO 25, Cellular and PCS/DCS
- Expanded memory now allows saving up to 15 test set-ups and 238 trace results for later review and archiving
- Other applications include 3G, Broadcast, Government, Tactical Military, Microwave, Paging, WLAN, WLL, etc.
- Upgradeable to SA-6000



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 tools 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 any analog or digital transmitter. Wideband Power Sensors are available from Bird for use with this option and are listed with the Accessories below.

Product Specifications:

Altitude:	Up to 15,000 feet (4572 m)
Data Transfer:	9 pin-RS-232 (DB9), compatible with serial port
Dimensions:	10.5" x 8.4" x 3.3" (265 mm x 212 mm x 83 mm)
External AC:	90 to 264 Vac @ 45-66 Hz; AC/DC adapter required
External DC:	9-16 VDC fused, <3 A
Frequency Range:	780-2500 MHz
Frequency Resolution:	50 kHz
Humidity:	95% ± 5% max. (non-condensing)
Immunity to Interfering Signals:	Rejects on-frequency signals up to +13 dBm
Impedance:	50 Ohms
Internal Time:	Rechargeable Lithium-Ion batteries, 3 hour minimum operating time. Auto shut-off conserves battery life.
Maximum Input Signal:	+22 dBm
Operating Temp.:	-10°C to 50°C (14°F to 122°F)

Power Measurement:	Yes
Return Loss:	0 to -60 dB
Setup Storage Capacity:	15-Set-Ups/(500) 238 point traces
Speed:	1 multi-frequency scan (238 points)/2 seconds; 1 multi-frequency scan (475 points)/3.5 seconds; 1 multi-frequency scan (949 points)/6 seconds
Storage Temperature:	-40°C to 80°C (-40°F to 176°F)
Test Port:	N-type female connector
Trace Resolution:	238 (default), 475, or 949 per trace
Upgradeable:	Yes, SA-6000EX
Weight:	5.5 lbs. (2.5 kg)

DIGITAL POWER SENSOR

Model 5010B

Dual-Socket Thruline Directional Power Sensor

- Dual-element THRULINE design for simultaneous forward and reflected power readings
- Measures true average and peak power
- $\pm 5\%$ of reading accuracy rivals thermal wattmeters in actual field use
- Small, easily-remoted sensor facilitates convenient hand-held operation



Bird's Most Sophisticated Thruline Sensor System is the Heart of the MODEL 5000-EX (Requires Bird MODEL 5000-EX, SA-4000, SA-1700-P or SA-2500A.) The Model 5010B Dual-Socket THRULINE Power Sensor is a precision 50-ohm 7/8-inch "Smart" Line Section which accepts Bird digital-ready Plug-in Elements. The Model 5010B Sensor provides true average and peak power readings for digital as well as traditional analog RF systems.

Product Specifications:

Accuracy:	True Average: $\pm 5\%$ of reading; Peak Power: $\pm 8\%$ of full scale
Connector:	QC Type. Female N normally supplied.
Dimensions:	1.875" H x 1.875" W x 3.5" D (47.7 x 47.7 x 88.9 mm) excluding connectors
Dynamic Range:	40:1 (E.G. 50 W element measure 1.25 W to 50 W).
Frequency Range:	Element limited. Please view element guide for current listing.
Humidity:	95% max. (non-condensing)
Input VSWR:	1.05:1 from 0.45 to 1000 MHz (with N connectors)
Operating Temperature:	-10 to 50°C
Peak/Average Ratio:	10 dB maximum with DPM elements
Power Range:	Element limited. Please view element guide for current listing. 1 W to 1000 W.
Pulse Duty Factor:	1×10^{-4}
Pulse Rep. Rate, Peak:	15 pps min.
Pulse Width, Peak:	> 100 MHz: 800 ns min, 26-99 MHz: 1.5 μ s min, 2-25 MHz 15 μ s min.
Sensor Type:	Bird THRULINE directional dual-element line section
Setting Time:	<2 seconds
Storage Temperature:	-40 to 75°C
Weight:	1.12 lbs. (0.51 kg)

DIGITAL POWER ELEMENTS

Model: DPM-50E , DPM-5E- For 900 Mhz

DPM-50L , DPM-5L- For 1800 Mhz

