

SPECIFICATIONS - MODEL 5000 DIGITAL POWER METER AND MODEL 5010 THRULINE® POWER SENSOR

MODEL 5000 DIGITAL POWER METER

Display:	Back-lit liquid crystal technology, 2.25" x 3.0" (57 x 76 mm). Three-way display consisting of major and minor digital display elements, analog bar graph element, annunciators, battery indicator and speed-key legends. All display elements visible simultaneously.
Major Digital Display:	5 digits, 5/16" (7.94 mm) high. Displays Forward Power, VSWR, dBm, Return Loss, and Match Efficiency.
Minor Digital Display:	5 digits, 1/4" (6.35 mm) high. Displays Reflected Power, VSWR, dBm, Return Loss, and Match Efficiency.
Analog Bar Graph:	20 segment, horizontal orientation. Tracks major digital display.
Measurement Mode:	TRUE AVERAGE POWER, for measurement of conventional or digitally-modulated RF.
Speed Keys:	SCALE, FWD UNITS, RFL UNITS. Set full scale power range and units for major and minor displays.
Display Annunciators:	MATCH EFF%, VSWR, RETURN LOSS, dBm, μ W, mW, W, KW located below major and minor displays. Display also indicates Overrange, and Low Battery.
Sensor Interface:	9-pin D-shell RS-232 serial connector. Sensor is powered from meter. Sensor is compatible with Bird VSWR Alarm products and Broadcast Power Monitor (BPM) product family.
PC Interface:	9-pin RS-232 serial port for connection to a PC.
Dimensions:	8.0"H x 4.63"W x 1.75"D (203 x 117.6 x 44.5 mm).
Weight:	1.5 lb, nominal (0.68 kg).

MODEL 5010 SENSOR

Sensor Type:	Bird THRULINE® directional dual-element line section.
Power / Frequency Range:	1 to 1000 W*, 2.0 MHz to 3600 MHz*.
Accuracy:	\pm 5% of reading (0° to 50°C), \pm 10% of reading (-10° to 0°C).
Peak/Average Power Ratio:	10 dB maximum with APM elements.
Settling Time:	< 2 seconds.
Connectors:	QC Type. Female N normally supplied.
Insertion VSWR:	1.05:1 from 0.45 to 1000 MHz (with N connectors).
Dimensions:	1.875"H x 1.875"W x 3.5"D (47.7 x 47.7 x 88.9 mm) excluding connectors.
Weight:	1.12 lb (0.51 kg).

GENERAL SPECIFICATIONS

Power Supply:	Rechargeable Nickel-Metal Hydride (NiMH) battery. Meter may be operated from AC mains using supplied adapter.
Battery Life:	100 hours, minimum, per charge.
Operating Temperature:	-10° to +50° C (Meter and Sensor).
Storage Temperature:	-40° to +80° C. (Meter and Sensor).
Humidity:	95% \pm 5% max. (non-condensing).
Mechanical Shock:	MIL-T-28800D Class 3.
Vibration:	MIL-T-28800D Class 3.
Altitude:	15,000 ft. (4570 m) operating.
EMC:	Complies with directive 92/31/EEC with exceptions noted: Emissions: EN-55011, Class B. Immunity: EN-50082-1 at 10 V/m.
Safety:	Complies with EN-61010, IAW Council Directives 73/23/EEC and 93/68/EEC.

ACCESSORIES

Standard:	Instruction manual, soft carrying case, AC charger/adapter, serial communications cable, Automotive power adapter, PC software tool.
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Preliminary specifications. Bird reserves the right to change features and specification without notice or obligation.

Meter, sensor, and plug-in elements priced separately.

* Power and frequency range based on selected plug-in elements.



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