POWER REQUIREMENTS

Operating power for the Models 4381, 4382, 4383 and 4384 is derived from rechargeable nickel-cadmium cells inside the portable unit or from an acoperated chargeradapter which attaches to the unit via a 6 foot (1.8 meter) cord. All panel mount units (Models 4385, 4386, 4387 and 4388) are ac operated only. A voltage selector slide switch, for 115 or 230Volt operation is located on the back panel of the units.

SPECIFICATIONS

Specifications for the Power Analyst are given in Table 1: Refer to Figure 1.1, 1.2, or 1.3 for outline dimensions.

Table 1. Specifications.

| Power Range ¹ Model 4381/83/85/87 | 100mW to 10kW full scale 250W to 250kW full scale To 120% of full scale on CW, PEP, |
|---|--|
| | SWR and return loss functions. To 400% of scale (PEP) on dBm and % modulation. |
| Frequency Range ¹ Model 4381/83/85/87 4382/84/86/88 Sampling Rate Accuracies | 450KHz to 2.3GHz 2MHz to 1000 MHz 2-3 readings per second |
| Power Readings SWR % Modulation2 Return Loss | ±5% of full scale ±10% of reading ±5% |
| | ±0.3dB to corresponding SWR value (accuracy not guaranteed with components not supplied by Bird) |
| Modulation Frequency ³ , Impedance Weight | 50-10, 000Hz 50 ohms |
| Model 4381 | 4.0 lbs. (1.8kg) 2-1/4 lbs. (1.0kg) |
| Model 4385 | 19" x 6-21/32" (48.3 x 165mm) 19" x 5-7/32" (483 x 133mm) |
| Battery - Models 4381/82/ 83/84 ac (Using. adapter/charger) | (Rechargeable Ni-Cad) Approx. 8 hours per charge 115V, 50-60Hz 6W or |
| ac (panel units) | 230V, 50-60Hz 6W 115V, 50-60Hz 8W or 230V, 50-60Hz 8W switchable. |
| | |

Frequency band and power range is determined by Plug-in Element selected. See Bird Catalog for availability. Some modes require two elements in a 18:3 power ratio.

^{*}For CW power levels greater than one third of full scale, accuracy of the % modulation mode is $\pm 5\%$ from 0 to 90% and $\pm 10\%$ from 90 to 100%.

For pulse modulation the minimum parameters are: 50 microseconds pulse width, $100~\rm pps$ repetition rate and 1% duty cycle.