



THRULINE® RF DIRECTIONAL WATTMETERS Multifunction RF POWER ANALYST®

RUGGED, PEP RF POWER ANALYST®

MODEL 4391A



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The ruggedly built, multifunction Model 4391A RF POWER ANALYST® features a digital display, microprocessor-based operation, and simplified, push-button control. This wattmeter is well suited to C³, telemetry, two-way communications, avionics and radar, as well as standard radio and television applications.

- Frequency: 0.45 to 2700 MHz. Power: 100 mW to 10 kW with 20% over-range.
- Reads forward and reflected CW or FM power in watts or dBm, Peak Envelope Power of SSB/DSB and symmetrical AM in watts, and peak power for pulses as narrow as 0.8 μ s.
- Calculates SWR, return loss in dB and % modulation
- Stores peak and null readings to facilitate adjustment of maximum and minimum signal levels.
- Shock-resistant keyboard and range switches. RFI protection. Built-in international power supply/charger.

Model: 4391A

Power Range: 100 mW to 10 kW using Bird Plug-in Elements*

Frequency Range: 450 kHz to 2.7 GHz
Insertion VSWR: with N Connectors
1.05 max. to 1000 MHz

Accuracy: Power Readings: $\pm 5\%$ of full scale
CW, $\pm 8\%$ PEP; VSWR: $\pm 10\%$ of reading
% Modulation: (CW power $\frac{1}{3}$ or more of full scale) $\pm 5\%$ (0–90%), $\pm 10\%$ (90–100%)

Usable Over-range: to 120% of scale
(CW, PEP, SWR and Return Loss)

Sampling Rate: 2 to 3 readings per second
Display: $3\frac{1}{2}$ digit, 0.3" LED strobed

Modulation Frequency: 25 to 10,000 Hz (Audio)
Pulse Parameters: (min.) Pulse width 0.8 μ s
(100–2700 MHz), 1.5 μ s
(26–99 MHz) and 15 μ s (2–25 MHz);

Repetition Rate 25 PPS, and Duty Factor
 1×10^{-4} min.

Return Loss: ± 0.3 dB to corresponding
SWR value

Battery Life: 8 hours (rechargeable)

AC Power: 100–130/200–260 V, 50/60 Hz, 6 W

Connectors: QC Type

(Female N normally supplied)

Finish: Blue vinyl with silver anodized side panels

Nominal Size: (includes connectors)

$9\frac{9}{16}$ " L \times $5\frac{7}{32}$ " W \times $4\frac{5}{16}$ " H
(243 mm \times 158 \times 110 mm)

Weight: $5\frac{3}{4}$ lbs. (2.6 kg)

Elements: Select 2 elements in a 10:1 power
ratio from Tables 1, 2, 3, 3A, 4, 5, 6 and
14 on pages 23 – 26.

Recommended Accessories: Case (page 22).

test & measurement instruments