

The Expediter™ RF AnaDigit System Model 83550

*The Expediter™ power computer...
you make the demands, it fills the requirements.*

Features

- Direct Reading Digital Display for:
 - Average or Peak modes
 - Relative power indicator
- Auto-Diagnosing for you confidence
- Auto-Prompting for your convenience
- Programmable FWD & RFL power ranges
- Enunciators for all functions, modes & conditions
- 18 scales from 100 mW to 10 kW
- Advanced 3/4" Liquid Crystal Display
- Internal 7/8" Dual Socket Line Section
- Uses Standard Gold Plated [Plug-In Elements](#)
- Two Year Limited Warranty

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Description

The portable Model 83550 is a microprocessor controlled Directional RF Wattmeter with numerous quick responding features designed to examine RF power transfer between a transmitter and an antenna or load.

Applications include analyzing 50-Ohm systems such as Continuous Wave (CW), Amplitude Modulation (AM), Frequency Modulation (FM), Television Signals, Telemetry, Two-Way Communications and Radar. Low insertion loss and VSWR is essential to measurement accuracy for these applications. With type N female connectors the Expediter maintains a VSWR of less than 1.05:1 over its entire operating frequency range of 0.45 MHz to 2300 MHz.

This multi-function Wattmeter, with its digital display, internal line section, Quick Match connectors, and a set of frequency/power discriminating plug-in elements form an analytical RF power measuring system. Capabilities include measurement of peak or average power, absolute or relative power, along with VSWR and return loss.

Your confidence in the quality and dependability of the Model 83550 Wattmeter is assured with the Coaxial Dynamics Two Year Limited Warranty.

Specifications

Power Range	100 mW to 10 kW, CW or Peak
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Frequency Range	2 MHz to 2300 MHz		
Accuracy	Average (CW) mode $\pm 5\%$ of full scale Peak-Pulse or Envelope-Power $\pm 7\%$ of full scale		
Insertion VSWR	1.05: 1 max. (with type N connectors)		
Impedance	50-Ohms		
Usable Over-range	130% of full scale		
Pulse Parameters	Square Pulses:	Min. Pulse Width	.5 μ sec 100 to 1000 MHz 2 μ sec 26 to 99 MHz 15 μ sec 2 to 25 MHz
		Min. Repetition Rate	30 pps
	Gaussian Pulses:	Min. Pulse Width	.5 μ sec 25 to 1000 MHz 15 μ sec 2 to 24 MHz
		Min. Repetition Rate	30 pps
Battery	Rechargeable Ni-Cad battery pack, 4.8 VDC 1.3 AH		
AC Power	Input: 110/220 VAC 50/60 Hz Output: 5.8 VDC 125 mA		
RF Connectors	Type N Female standard (see note below)		
Dimensions (H x W x D)	3.25 in. (8.3 cm) x 7.63 in. (19.4 cm) x 8.75 in. (22.2 cm)		
Weight	4.5 lbs. (2.04 kg)		
Case Finish	Textured Blue and Tan Polyurethane Enamel		
<i>Note: Other Quick Match Connectors are available.</i>			

[general documents/SUPPLIERS/COAXIAL/specs for online catalogue/Directional Wattmeters/footer.htm]