

RF Peak Reading Wattmeter

83000-A Series

Model 83000-A

When you need peak power measuring capability in the 2 to 2300 MHz frequency range and from 0.1 watt through 10 kw, then you need to get your hands on our Model 83000-A RF Peak Reading Wattmeter — only from Coaxial Dynamics, Inc.

Similar in appearance and operation to our standard Model 81000-A wattmeter. The 83000-A converts from average reading to Peak Reading, with the Flip of a Switch, by inserting a peak reading amplifier between the elements and the meter.

The Model 83000-A is designed to measure RF power in amplitude modulated systems such as television, telemetry, radar and peak envelope power (PEP) such as SSB and AM signals. The plug-in elements of the 83000-A are interchangeable with those of our model 81000-A (see schedules 1, 2, 3). Furthermore, peak only (high power) elements are also available (see schedule 9). To compliment each application and specific requirement, elements are selected separately. Special elements for higher power or extended frequency ranges are made by custom request.

Your confidence in the quality and dependability of the 83000-A is assured with the Coaxial Dynamics two year limited warranty. Our use of a rugged taut band shock mounted meter with a mirrored-backed scale is your further assurance of accuracy.

Self-contained and requiring no line power in either peak or average mode, the Model 83000-A is the right choice for portability and functionality. With peak reading circuitry that operates on one 9v replaceable "alkaline" transistor battery (supplied), normal, portable usage is possible for at least 90 days or the life of the battery. An optional, rechargeable battery is also available.

The Model 83000-A, from Coaxial Dynamics, is factory equipped with female type "N" connectors. Other quick-match connectors and additional options are also available. Your factory sales representative will be happy to discuss these with you.



* For additional information on our 83000-A series Peak Reading Wattmeter and accessories, consult the factory.

CHECK THESE COAXIAL FEATURES:

- 4½" MIRRORED SCALE
- QUICK MATCH CONNECTORS
- HI-CON PLATED PLUG - IN ELEMENTS
- 2 YEAR LIMITED WARRANTY



Coaxial Dynamics

A CDI INDUSTRIES, INC. COMPANY

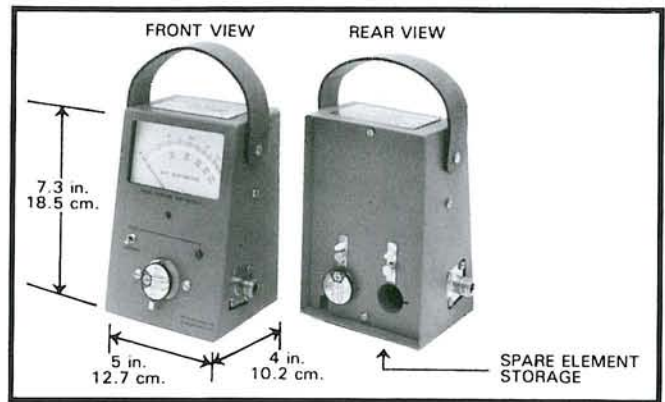
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RF PEAK READING WATTMETER Model 83000-A



**SCHEDULE (1)
STANDARD ELEMENTS (CATALOG NUMBERS)**

Power Range	Frequency (MHz)							
	2-30	25-60	50-125	100-250	200-500	400-1000	950-1300	1.1-1.8 GHz
5 watts		82012	82020	82028	82036	82045	82068	82079
10 watts		82013	82021	82029	82037	82046	82069	82080
25 watts		82014	82022	82030	82038	82047	82070	82081
50 watts	82004	82015	82023	82031	82039	82048	82071	82082
100 watts	82005	82016	82024	82032	82041	82049	82072	
250 watts	82006	82017	82025	82033	82042	82050	82073	
500 watts	82007	82018	82026	82034	82043	82051	82074	
1000 watts	82008	82019	82027	82035	82044	82052	82075	
2500 watts	82009							
5000 watts	82010							

**SCHEDULE (2)
MILLIWATT ELEMENTS**

100 mW	Cat. No.	250 mW	Cat. No.	500 mW	Cat. No.
20-23 MHz	820A022	70-80 MHz	820B075	25-30 MHz	820C028
44-50 MHz	820A047	72-76 MHz	820B074	65-90 MHz	820C078
62-70 MHz	820A066	105-120 MHz	820B113	72-76 MHz	820C074
72-76 MHz	820A074	310-350 MHz	820B330	105-120 MHz	820C113
105-120 MHz	820A113	416-436 MHz	820B426	130-170 MHz	820C150
135-165 MHz	820A150	800-900 MHz	820B850	300-350 MHz	820C325
190-205 MHz	820A198	900-950 MHz	820B925	800-900 MHz	820C850
310-350 MHz	820A330			900-950 MHz	820C925
416-436 MHz	820A426				
740-760 MHz	820A750				
800-900 MHz	820A850				

**SCHEDULE (3)
LOW POWER ELEMENTS**

1 watt	Cat. No.	2.5 watts	Cat. No.
28-44 MHz	820D036	60-80 MHz	820E070
40-50 MHz	820D045	80-140 MHz	820E110
44-70 MHz	820D057	95-150 MHz	820E123
70-120 MHz	820D095	150-250 MHz	820E200
108-118 MHz	820D113	200-300 MHz	820E250
108-181 MHz	820D145	225-400 MHz	820E313
150-250 MHz	820D200	275-450 MHz	820E363
200-300 MHz	820D250	340-560 MHz	820E450
275-450 MHz	820D363	800-950 MHz	820E875
310-350 MHz	820D330		
327-543 MHz	820D435		
425-850 MHz	820D638		
800-950 MHz	820D875		

**SCHEDULE (9)
HIGH POWER ELEMENTS (PEAK ONLY)**

Power Range	Frequency (MHz)					
	2-30	25-60	50-125	100-250	200-500	400-1000
2.5 kW		82053	82054	82055	82056	82057
5.0 kW		82058	82059	82060	82061	82062
10.0 kW	82011	82063	82064	82065	82066	82067

NOTE: Special elements other than those listed can be custom designed, contact your local distributor or Coaxial Dynamics, Inc. for more information.

88000 SERIES RF QUICK MATCH 50 ohm CONNECTORS

88000	N Female	88010	3/8" Swivel Flanged
88001	N Male	88011	TNC Female
88002	BNC Female	88012	TNC Male
88003	BNC Male	88013	HN Female
88004	UHF Female	88014	HN Male
88005	UHF Male	88020	SMA Female
88006	LC Female	88021	SMA Male
88007	LC Male	88026	Miniature UHF Female
88008	C Female	88027	SC Female
88009	C Male	88028	SC Male

SPECIFICATIONS: MODEL 83000-A

Power Range, Peak or Average 100mW - 10kW
 Peak Only 2.5kW, 5kW, and 10kW
 Frequency Range 2 - 2300 MHz
 Insertion VSWR 1.05: 1 Max, with type "N" Connectors
 Impedance 50 ohms
 Finish CDI Blue
 Weight . . 4.5 lbs. (1.35kg) Element Weight . . 1.25 oz. (.035 kg)
 Power Requirements ONE 9V alkaline "transistor" batteries supplied
 Battery Life EST 90 days normal use
 Accuracy Average (CW) mode ±5% of full scale
 Peak-Pulse or Envelope-Power mode ±7% of full scale

Pulse Parameters

Square Pulses: Minimum Pulse Width: .5 μsec 100-1000 MHz
 2 μsec 26-99 MHz
 15 μsec 2-25 MHz
 Minimum Repetition Rate: 30 pps

Gaussian Pulses: Minimum Pulse Width: 5 μsec 25-1000 MHz
 15 μsec 2-24 MHz
 Minimum Repetition Rate: 30 pps