

Directional RF Wattmeters

**81100-A-
81600-A
SERIES**

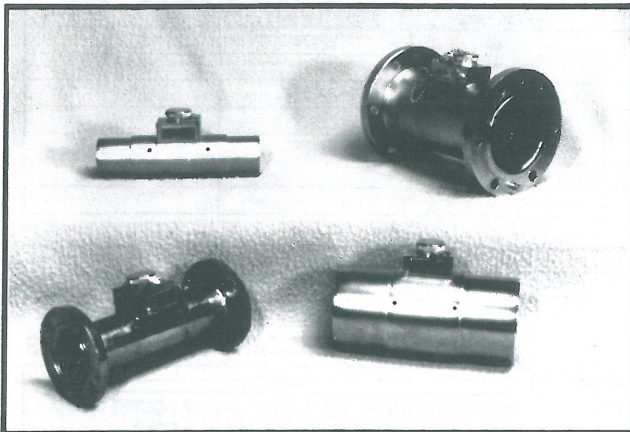
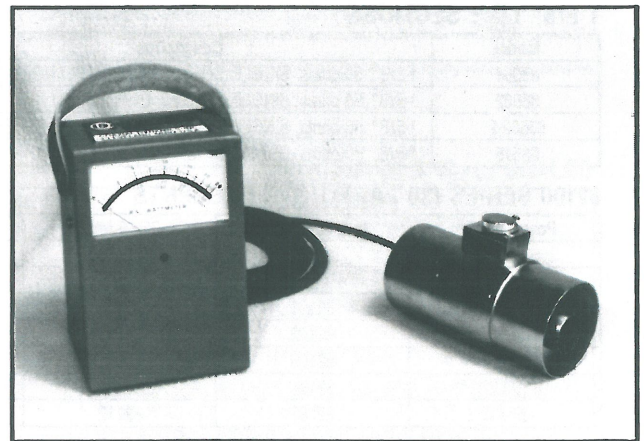
High Power Series

Coaxial Dynamics High Power Series of Directional R.F. Wattmeters are designed to measure R.F. power in 50 ohm Coaxial Transmission Lines.

To use the Wattmeter, simply connect it between the power source and an antenna or "dummy" load, plug in the appropriate measuring element and/or elements and read the R.F. power directly on the 4½" 3-scale meter.

Several different models are available. The external line section can be used with accessory cables (10' normally supplied) up to 200' from the meter. The meter unit is protected by a rugged, shock-proof housing. On the back of the housing are two sockets for storing additional measuring elements.

The high quality meter utilizes three computer generated scales and advanced taut band technology for reliability and accurate readings.



CHECK THESE COAXIAL FEATURES:

FOR ACCURACY

- ☒ SHOCK MOUNTED "TAUT BAND" METER
- ☒ 4½" MIRRORED SCALE

FOR DURABILITY

- ☒ GOLD PLATED PLUG-IN ELEMENTS
- ☒ 2 YEAR LIMITED WARRANTY



Coaxial Dynamics

A CDI INDUSTRIES, INC. COMPANY

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SECTION B

1-5/8" WATTMETERS, LINE SECTIONS & ELEMENTS

81100-A SERIES DIRECTIONAL RF WATTMETERS

STANDARD 5/10/25 SCALES

Model No.	Description	Model No.	Description
81100-A	WATTMETER, W/10' CABLE, 1-5/8" SINGLE SOCKET FLANGED LINE SECTION (P/N 88501). WORKS WITH ELEMENTS FROM SECTION B.	81101-A	WATTMETER, W/10' CABLE, 1-5/8" SINGLE SOCKET UNFLANGED LINE SECTION (P/N 88502). WORKS WITH ELEMENTS FROM SECTION B.
81102-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 1-5/8" DUAL SOCKET FLANGED LINE SECTION (P/N 88514). WORKS WITH ELEMENTS FROM SECTION B.	81103-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, AND 1-5/8" DUAL SOCKET UNFLANGED LINE SECTION (P/N 88515). WORKS WITH ELEMENTS FROM SECTION B.
81111-A	WATTMETER, W/10' CABLE, 1-5/8" SINGLE SOCKET UNFLANGED RECESSED LINE SECTION (P/N 88502-2). WORKS WITH ELEMENTS FROM SECTION B.	81113-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 1-5/8" DUAL SOCKET UNFLANGED RECESSED LINE SECTION (P/N 88515-2). WORKS WITH ELEMENTS FROM SECTION B.

81100-A SERIES DIRECTIONAL RF WATTMETERS

SPECIAL 15/30/60 SCALES

Model No.	Description	Model No.	Description
81106-A	WATTMETER, W/10' CABLE, 1-5/8" SINGLE SOCKET FLANGED LINE SECTION (P/N 88501). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION B.	81107-A	WATTMETER, W/10' CABLE, 1-5/8" SINGLE SOCKET UNFLANGED LINE SECTION (P/N 88502). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION B.
81108-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 1-5/8" DUAL SOCKET FLANGED LINE SECTION (P/N 88514). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION B.	81109-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, AND 1-5/8" DUAL SOCKET UNFLANGED LINE SECTION (P/N 88515). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION B.

1 5/8" LINE SECTIONS

Model	Description	Model	Description
88501	1-5/8" 50 ohms, SINGLE SOCKET, SWIVEL FLANGED E.I.A.	88509	1-5/8" 50 ohms, 3 PORT SWIVEL FLANGED E.I.A. (4-1/8" LONG)
88502	1-5/8" 50 ohms, SINGLE SOCKET, UNFLANGED	88511	1-5/8" 50 ohms, 4 PORT SWIVEL FLANGED E.I.A.
88502-2	1-5/8" 50 ohms, SINGLE SOCKET, UNFLANGED RECESSED	88514	1-5/8" 50 ohms, DUAL SOCKET SWIVEL FLANGED E.I.A.
88515	1-5/8" 50 ohms, DUAL SOCKET, UNFLANGED	88515-2	1-5/8" 50 ohms, DUAL SOCKET UNFLANGED RECESSED

82100 SERIES (30 μ A) PLUG-IN ELEMENTS

FOR USE IN ALL 1 5/8" LINE SECTIONS

Power Range	2-30 MHz	25-60 MHz	50-125 MHz	100-250 MHz	200-500 MHz	400-1000 MHz
250		82106	82113	82120	82127	82134
500		82107	82114	82121	82128	82135
1000	82101	82108	82115	82122	82129	82136
2500	82102	82109	82116	82123	82130	82137
5000	82103	82110	82117	82124	82131	82138
10 kW	82104	82111	82118			
25 kW	82105	82112	82119			

SPECIAL 15/30/60 SCALE (30 μ A) ELEMENTS FOR 1-5/8" LINE SECTIONS

POWER RANGE	2-30 MHz	25-60 MHz	50-125 MHz	100-250 MHz	200-500 MHz	400-1000 MHz
300		82155	82162	82169	82174	82179
600		82156	82163	82170	82175	82180
1500	82150	82157	82164	82171	82176	82181
3000	82151	82158	82165	82172	82177	82182
6000	82152	82159	82166	82173	82178	82183
15 kW	82153	82160	82167			
30 kW	82154	82161	82168			

SECTION C

3-1/8" WATTMETERS, LINE SECTIONS & ELEMENTS

81300-A SERIES DIRECTIONAL RF WATTMETERS

STANDARD 5/10/25 SCALES

Model No.	Description	Model No.	Description
81300-A	WATTMETER, W/10' CABLE, 3-1/8" SINGLE SOCKET FLANGED LINE SECTION (P/N 88503). WORKS WITH ELEMENTS FROM SECTION C.	81301-A	WATTMETER, W/10' CABLE, 3-1/8" SINGLE SOCKET UNFLANGED LINE SECTION (P/N 88504). WORKS WITH ELEMENTS FROM SECTION C.
81302-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 3-1/8" DUAL SOCKET FLANGED LINE SECTION (P/N 88515). WORKS WITH ELEMENTS FROM SECTION C.	81303-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, AND 3-1/8" DUAL SOCKET UNFLANGED LINE SECTION (P/N 88517). WORKS WITH ELEMENTS FROM SECTION C.
81311-A	WATTMETER, W/10' CABLE, 3-1/8" SINGLE SOCKET UNFLANGED RECESSED LINE SECTION (P/N 88504-2). WORKS WITH ELEMENTS FROM SECTION C.	81313-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 3-1/8" DUAL SOCKET UNFLANGED RECESSED LINE SECTION (P/N 88517-2). WORKS WITH ELEMENTS FROM SECTION C.

81300-A SERIES DIRECTIONAL RF WATTMETERS

SPECIAL 15/30/60 SCALES

Model No.	Description	Model No.	Description
81306-A	WATTMETER, W/10' CABLE, 3-1/8" SINGLE SOCKET FLANGED LINE SECTION (P/N 88503). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION C.	81307-A	WATTMETER, W/10' CABLE, 3-1/8" SINGLE SOCKET UNFLANGED LINE SECTION (P/N 88504). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION C.
81308-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 3-1/8" DUAL SOCKET FLANGED LINE SECTION (P/N 88515). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION C.	81309-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 3-1/8" DUAL SOCKET UNFLANGED LINE SECTION (P/N 88517). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION C.

3 1/8" LINE SECTIONS

Model	Description	Model	Description
88503	3-1/8" 50 ohms, SINGLE SOCKET, SWIVEL FLANGED E.I.A.	88512	3-1/8" 50 ohms, 4 PORT SOCKET SWIVEL FLANGED E.I.A.
88504	3-1/8" 50 ohms, SINGLE SOCKET, UNFLANGED	88513	3-1/8" 50 ohms, 3 PORT, SWIVEL FLANGED E.I.A.
88504-2	3-1/8" 50 ohms, SINGLE SOCKET, UNFLANGED RECESSED	88516	3-1/8" 50 ohms, DUAL SOCKET, SWIVEL FLANGED E.I.A.
88510	3-1/8" 50 ohms, 3 PORT, SWIVEL FLANGED E.I.A. (4-1/8" LONG)	88517	3-1/8" 50 ohms, DUAL SOCKET UNFLANGED
		88517-2	3-1/8" 50 ohms, DUAL SOCKET, UNFLANGED RECESSED

82300 SERIES (30 μ A) PLUG-IN ELEMENTS

FOR USE IN ALL 3 1/8" LINE SECTIONS

Power Range	2-30 MHz	25-60 MHz	50-125 MHz	100-250 MHz	200-500 MHz	400-1000 MHz
1000		82306	82311	82316	82321	82326
2500		82307	82312	82317	82322	82327
5000	82301	82308	82313	82318	82323	82328
10 kW	82302	82309	82314	82319	82324	82329
25 kW	82303	82310	82315	82320	82325	82330
50 kW	82304		82332	82333		

SPECIAL 15/30/60 SCALE (30 μ A) ELEMENTS FOR 3-1/8" LINE SECTIONS

POWER RANGE	2-30 MHz	25-60 MHz	50-125 MHz	100-250 MHz	200-500 MHz	400-1000 MHz
1500		82354	82360	82366	82372	82378
3000		82355	82361	82367	82373	82379
6000	82350	82356	82362	82368	82374	82380
15 kW	82351	82357	82363	82369	82375	82381
30 kW	82352	82358	82364	82370	82376	82382
60 kW	82353	82359	82365	82371	82377	82383

SECTION D

4-1/16" WATTMETERS, LINE SECTIONS & ELEMENTS

81400-A SERIES DIRECTIONAL RF WATTMETERS

STANDARD 5/10/25 SCALES

Model No.	Description	Model No.	Description
81400-A	WATTMETER, W/10' CABLE, 4-1/16" SINGLE SOCKET FLANGED LINE SECTION (P/N 88505). WORKS WITH ELEMENTS FROM SECTION D.	81401-A	WATTMETER, W/10' CABLE, 4-1/16" SINGLE SOCKET UNFLANGED LINE SECTION (P/N 88506). WORKS WITH ELEMENTS FROM SECTION D.
81402-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 4-1/16" DUAL SOCKET FLANGED LINE SECTION (P/N 88518). WORKS WITH ELEMENTS FROM SECTION D.	81403-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, AND 4-1/16" DUAL SOCKET UNFLANGED LINE SECTION (P/N 88519). WORKS WITH ELEMENTS FROM SECTION D.
81411-A	WATTMETER, W/10' CABLE, 4-1/16" SINGLE SOCKET UNFLANGED RECESSED LINE SECTION (P/N 88506-2). WORKS WITH ELEMENTS FROM SECTION D.	81413-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 4-1/16" DUAL SOCKET UNFLANGED RECESSED LINE SECTION (P/N 88519-2). WORKS WITH ELEMENTS FROM SECTION D.

81400-A SERIES DIRECTIONAL RF WATTMETERS

SPECIAL 15/30/60 SCALES

Model No.	Description	Model No.	Description
81406-A	WATTMETER, W/10' CABLE, 4-1/16" SINGLE SOCKET FLANGED LINE SECTION (P/N 88505). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION D.	81407-A	WATTMETER, W/10' CABLE, 4-1/16" SINGLE SOCKET UNFLANGED LINE SECTION (P/N 88506). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION D.
81408-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, DUAL SOCKET FLANGED LINE SECTION (P/N 88518). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION D.	81409-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 4-1/16" DUAL SOCKET UNFLANGED LINE SECTION (P/N 88519). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION D.

4 1/16" LINE SECTIONS

Model	Description	Model	Description
88505	4-1/16" 50 ohms, SINGLE SOCKET, SWIVEL FLANGED E.I.A.	88518	4-1/16" 50 ohms, DUAL SOCKET, SWIVEL FLANGED E.I.A.
88506	4-1/16" 50 ohms, SINGLE SOCKET, UNFLANGED	88519	4-1/16" 50 ohms, DUAL SOCKET, UNFLANGED
88506-2	4-1/16" 50 ohms, SINGLE SOCKET, UNFLANGED RECESSED	88519-2	4-1/16" 50 ohms, DUAL SOCKET, UNFLANGED RECESSED

82400 SERIES (30 μ A) PLUG-IN ELEMENTS

FOR USE IN ALL 4-1/16" LINE SECTIONS

Power Range	2-30 MHz	25-60 MHz	50-125 MHz	100-250 MHz	200-500 MHz	400-750 MHz
2500			82413	82419		82429
5000			82414	82420		82430
10 kW			82415	82421		82431
25 kW			82416	82422		82432
50 kW			82417	82423		82433
100 kW						

SPECIAL 15/30/60 SCALE (30 μ A) ELEMENTS FOR 4-1/16" LINE SECTIONS

Power Range	50-125 MHz	100-250 MHz	200-500 MHz	400-750 MHz
3000	82456	82461	82466	82471
6000	82457	82462	82467	82472
15 kW	82458	82463	82468	82473
30 kW	82459	82464	82469	82474
60 kW	82460	82465	82470	82475

SECTION E

6-1/8" WATTMETERS, LINE SECTIONS & ELEMENTS

81600-A SERIES DIRECTIONAL RF WATTMETERS

STANDARD 5/10/25 SCALES

Model No.	Description	Model No.	Description
81600-A	WATTMETER, W/10' CABLE, 6-1/8" SINGLE SOCKET FLANGED LINE SECTION (P/N 88507). WORKS WITH ELEMENTS FROM SECTION E.	81601-A	WATTMETER, W/10' CABLE, 6-1/8" SINGLE SOCKET UNFLANGED LINE SECTION (P/N 88508). WORKS WITH ELEMENTS FROM SECTION E.
81602-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 6-1/8" DUAL SOCKET FLANGED LINE SECTION (P/N 88520). WORKS WITH ELEMENTS FROM SECTION E.	81603-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 6-1/8" DUAL SOCKET UNFLANGED LINE SECTION (P/N 88521). WORKS WITH ELEMENTS FROM SECTION E.
81611-A	WATTMETER, W/10' CABLE, 6-1/8" SINGLE SOCKET UNFLANGED RECESSED LINE SECTION (P/N 88508-2). WORKS WITH ELEMENTS FROM SECTION E.	81613-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 6-1/8" DUAL SOCKET UNFLANGED RECESSED LINE SECTION (P/N 88521-2). WORKS WITH ELEMENTS FROM SECTION E.

81600-A SERIES DIRECTIONAL RF WATTMETERS

SPECIAL 15/30/60 SCALES

Model No.	Description	Model No.	Description
81606-A	WATTMETER, W/10' CABLE, 6-1/8" SINGLE SOCKET FLANGED LINE SECTION (P/N 88507). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION E.	81607-A	WATTMETER, W/10' CABLE, 6-1/8" SINGLE SOCKET UNFLANGED LINE SECTION (P/N 88508). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION E.
81608-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 6-1/8" DUAL SOCKET FLANGED LINE SECTION (P/N 88520). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION E.	81609-A	WATTMETER, W/2-10' CABLES, FWD/RFL SWITCH, 6-1/8" DUAL SOCKET UNFLANGED LINE SECTION (P/N 88521). WORKS WITH SPECIAL 15/30/60 SCALE ELEMENTS FROM SECTION E.

6 1/8" LINE SECTIONS

Model	Description	Model	Description
88507	6-1/8" 50 OHM, SINGLE SOCKET, SWIVEL FLANGED E.I.A.	88520	6-1/8" 50 OHM, DUAL SOCKET, SWIVEL FLANGED E.I.A.
88508	6-1/8" 50 OHM, SINGLE SOCKET, UNFLANGED	88521	6-1/8" 50 OHM, DUAL SOCKET, UNFLANGED
88508-2	6-1/8" 50 OHM, SINGLE SOCKET, UNFLANGED RECESSED	88521-2	6-1/8" 50 OHM, DUAL SOCKET UNFLANGED RECESSED

82600 SERIES (30 μ A) PLUG-IN ELEMENTS

FOR USE IN ALL 6-1/8" LINE SECTIONS

Power Range	2-30 MHz	25-60 MHz	50-125 MHz	100-250 MHz	200-500 MHz	400-1000 MHz
2500			82615	82622		82634
5000			82616	82623		82635
10 kW			82617	82624		82636
25 kW			82618	82625		82637
50 kW			82619	82626		82638
100 kW			82620	82627		82639

SPECIAL 15/30/60 SCALE (30 μ A) ELEMENTS FOR 6-1/8" LINE SECTIONS

Power Range	50-125 MHz	100-250 MHz	200-500 MHz	400-1000 MHz
3000	82656	82661	82666	82671
6000	82657	82662	82667	82672
15 kW	82658	82663	82668	82673
30 kW	82659	82664	82669	82674
60 kW	82660	82665	82670	82675

ADAPTERS TO ACCEPT QUICK MATCH CONNECTORS

Model No.	Description	Model No.	Description
88016	1-5/8" UNFLANGED	88018	1-5/8" E.I.A. FLANGED
88017	3-1/8" UNFLANGED	88019	3-1/8" E.I.A. FLANGED

Minimum Billing - \$50.00 Per Order (except for repair parts)

Prices and Specifications Subject to Change Without Notice

Please Inquire for OEM and Distributor Arrangements

Coaxial RF Meters, Couplers, Loads and Accessories are Designed for 50 Ohms

Formal Price Quotations are Valid for 60 Days

2 Year Limited Warranty on All Catalog Items

SHIPPING INSTRUCTIONS

UNLESS SPECIFIC INSTRUCTIONS ACCOMPANY THE ORDER, WE SHALL USE OUR JUDGEMENT AND SELECT THE BEST METHOD FOR YOUR SHIPMENT. IF REQUESTED, REPAIR PARTS OR OTHER ITEMS NEEDED QUICKLY WILL BE SHIPPED BY AIR.

EXPORT SHIPMENTS VIA AIR-FREIGHT SAVE TIME, AND IN MANY CASES ARE LESS EXPENSIVE THAN SURFACE MODES.

SPECIAL DATA

INDIVIDUAL SPECIAL PERFORMANCE DATA CAN BE PROVIDED FOR MOST C.D.I. PRODUCTS AT A MINIMUM CHARGE OF \$40.00 PER UNIT

ORDER BY NUMBER

PLEASE ORDER BY MODEL NUMBER OR PART NUMBER. WHENEVER POSSIBLE, INCLUDE THE NAME OF THE ITEM OR OTHER SIGNIFICANT SPECIFICATIONS. BE SURE TO INCLUDE IN YOUR ORDER ANY ACCESSORIES OR SPECIAL CALIBRATION REQUIRED.

TERMS

ALL PRICES ARE F.O.B. CLEVELAND, OHIO. TERMS ARE NET 30 DAYS FOR ESTABLISHED ACCOUNTS.

QUANTITY DISCOUNTS

AVAILABLE ON MOST EQUIPMENT WHEN 25 PIECES OR MORE OF THE SAME MODEL ARE ORDERED. PLEASE INQUIRE.

CUSTOMER SERVICE

C.D.I. MAINTAINS A COMPLETE REPAIR AND CALIBRATION DEPARTMENT IN CLEVELAND, OHIO. IT IS SET UP TO PROVIDE THE BEST POSSIBLE SERVICE OF C.D.I. EQUIPMENT. REPAIRS WILL PROCEED AS SOON AS THE INSTRUMENT IS RECEIVED WITH YOUR AUTHORIZATION. IF YOU REQUIRE A FIRM QUOTATION BEFORE REPAIRS PROCEED, PLEASE ADVISE US. ALL INSTRUMENTS RETURNED FOR REPAIR MUST BE SHIPPED PREPAID.

CONDITIONS OF SALE

DETERMINATION OF PRICE, TERMS AND CONDITIONS OF SALE AND FINAL ACCEPTANCE OF ORDERS ARE MADE ONLY AT OUR FACTORY IN CLEVELAND, OHIO.

FOR MORE INFORMATION CALL TOLL FREE 1-800-COAXIAL (262-9425)