

## Daiwa CN-801 HP, serial number 2003

Frequency range 1.8-200 MHz  
 Power range 1-2000 W  
 Power requirement 13.8 V dc, 70 mA  
 PEP measurement Active  
 Size (height, width, depth) 4.5 x 6.125 x 4.5"  
 Price \$155

Actual Power (W)	Frequency (MHz)	2	14	28	50	144
5 W CW	4.9	4.9	4.8	4.8	4.7	5.4
5 W 50%	6.2	5.5	5.3	5.3	5.3	6.3
100 W CW	98	99	94	94	97	98
100 W 50%	106	101	97	102	103	103
100 W two-tone	-	96	-	-	-	-
1 kW CW	1030	1040	990	-	-	-
1 kW 50%	1180	1300	1130	-	-	-
1 kW two-tone	-	1050	-	-	-	-

  

SWR Accuracy	1.0:1	1.0:1	1.0:1	1.0:1	1.0:1
1:1 SWR	1.0:1	1.0:1	1.0:1	1.0:1	1.0:1
2:1 SWR	2.1:1	2.0:1	2.1:1	2.0:1	2.0:1
Insertion loss (dB)	<0.1	<0.1	<0.1	<0.1	0.13

- = Not measured.

## DAIWA CN-801 HP

The CN-801 HP uses a large cross needle meter with pleasing pale blue meter lamps, making it stand out in any ham shack. Fairly heavy as wattmeters go, this giant size gray metal unit is ruggedly built and comes with removable rubber side bumpers, a useful feature that may prevent damage in the field.

Its range of 1.8 to 200 MHz is the widest in this group, with forward power scales of 20, 200 and 2000 W selected by the front panel RANGE switch. This active wattmeter must be connected to a dc supply for PEP measurements but will read average power



and SWR with the power disconnected. I was surprised that it does not measure reflected power or display SWR in the PEP mode. Power accuracy is very good, though I did notice a jump up of a few watts when switching from AVG to PEP in the key-down CW test.

The large  $3.75 \times 3.25$  inch meter face is easy to read and provides good resolution with tick marks every 0.5 W up to 20 W (multiply by 10 or 100 for higher power ranges). A rear panel receptacle accepts 13.8 V dc (power cord is included), and a meter lamp switch is located on the rear panel.

I wished the case had more than its two rubber feet. The front feet are smooth plastic brackets that secure the front panel to the case — they prop up the front of the meter but provide no grip. Even with the meter's weight, the front end slides a little when switching the RANGE or AVG/PEP toggle switches. A couple of stick-on feet will fix that.

The 4 pages of instructions are in English on one side and Japanese on the other. There are plenty of illustrations and even some technical information on power measurement.

The CN-801 HP is a good choice for home stations but a little large for mobile work. Note that there are several other instruments in the CN-801 family that cover different frequency ranges and power levels.

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