

CN-501 Series

H TYPE

H2 TYPE

V TYPE

DESCRIPTION (average power-FM)

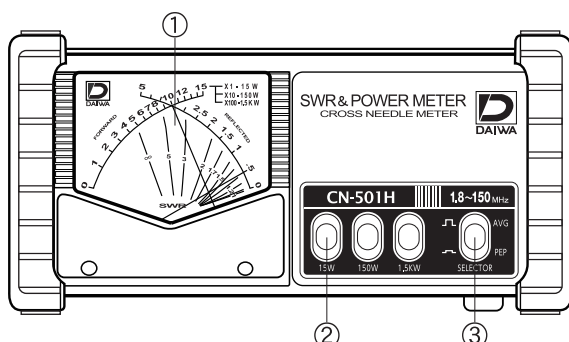
The CN-501 Series is high quality Instrument with unique features which make tedious measurement of SWR and Power during antenna tests, matching and tuning of transmitters a very easy task. SWR and Power indicators are installed in one meter unit. One scale will indicate Forward Power. Another scale Reflected Power and SWR is indicated at the crossing point of the 2 needles. This unique feature makes it possible to read Forward Power, Reflected Power and SWR all at the same time.

SPECIFICATIONS

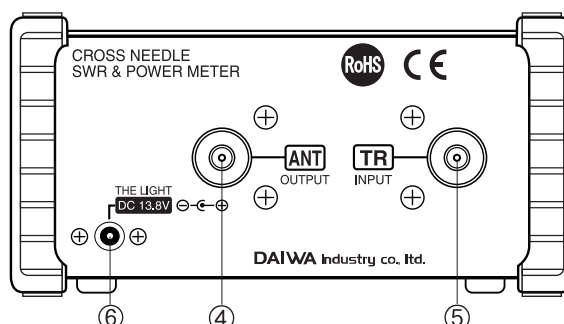
	H TYPE	H2 TYPE	V TYPE
Frequency	1.8~150MHz	1.8~150MHz	140~525MHz
Power range : Forward	15/150/1.5KW	20/200/2KW	20W/200W
Power rating	1.5KW(1.8~60MHz) 1KW(144MHz)	2KW(1.8~60MHz) 1KW(144MHz)	200W(140~525MHz)
Tolerance	± 10% at full scale		
SWR measurement	1 : 1 ~ 1 : ∞		
SWR detection sensitivity	4W MIN		
Input / Output impedance	50 ohms		
Input / Output connectors	M Type		M or N Type
Dimensions	155(W) × 80(H) × 100(D) mm		
Weight	670 g		

NOMENCLATURE (average power-FM)

- ① Cross meter : Indicates SWR, Forward and Reflected Power.
- ② Range Switch : Used to select the power measuring range.
- ③ Model Selector : Used to select meter reading of AVG (average power), or monitoring of P.E.P.
- ④ Output(ANT) : Connect with 50 ohms coaxial cable to antenna system.
- ⑤ Input(TR) : Connect with 50 ohms coaxial cable to transmitter or transceiver.
- ⑥ Lamp Terminal : Connect lamp terminal to 13.8VDC Power Supply to illuminate the lamp.
- ⑦ The suitable : Diameter (Inside/Outside) 2.5mm/5.5mm
DC plug size Length 9.0mm



H TYPE FRONT PANEL



H TYPE REAR PANEL

■ OPERATION

1. Select the Mode switch to "AVG" FM position
 - "Forward" scale indicates Forward Power.
 - "Reflected" scale indicates Reflected Power.
 - Effective Radiated Power.

To measure effective radiated power, subtract Reflected power from Forward Power. (Apparent loss is only produced by impedance mismatch and does not include cable losses.)

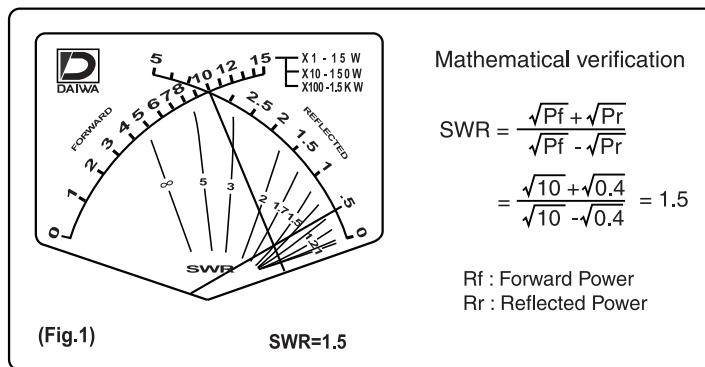
2. Monitoring P.E.P power

Turn the Mode switch to PEP SSB position

When the transmitter is operated and the switch is in the PEP position the meter needle Monitor PEP of the SSB signal.

For monitoring PEP, a condensor is placed into detector circuit.

This function can not hold peak envelope power.



■ CAUTIONS

1. Use only 50 ohms coax line for connections. This will maintain the accuracy of the meter.
2. For accurate power measurements, use 50 ohms pure resistance dummy load.
3. The meter movements are highly sensitive. Prevent mechanical shock and vibration.
4. Measuring power with a poorly matched antenna or disconnecting the output of the bridge while operating may damage the meter.