

# THE BEST

## - DESCRIPTION -

*CN-30, CN-144 and CN-220 are first class high quality instruments with unique features which make tedious measurements 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 two needles. This unique feature makes possible to read forward power, reflected power and SWR all the same time.*

*CN-30 is right for HF (CB) measures. There is a exclusive system to toroidal transformers in the model CN-220 so that permits measures from 1,8 MHz to 220 MHz.*

*CN-30 and CN-220 uses a exclusive circuit for the measure both of middle power (AVG) and of P.E.P. power.*

## - OPERATION -

### AVG POWER MEASURE

*SELECTOR mode switch in "AVG" position - Read forward power on the FORWARD scale and reflected power on REFLECTED scale -*

*Effective radiated power will be calculated on subtracting Reflected power from Forward power. ( Apparent loss is only produced by impedance mismatch and does not include cable losses )*

### MONITORING PEP POWER

*Turn the selector switch to PEP position - When the transmitter is operated and the switch is in the PEP position the meter needle show the PEP of the SSB signal.*

*For monitoring PEP, a condensor is placed into detector circuit; this function can not hold peak envelope power.*

## - CAUTIONS -

*Use only 50 ohms coax line cables and connectors for connecting the meter to the antennas and transceivers, this will maintain the accuracy of the meter.*

*For accurate power measurements use only 50 ohms pure resistance RMS dummy loads - The meter movements are highly sensitive; prevent mechanical shock and vibrations.*

*Measuring power with a poorly matched antenna or disconnecting the output of the bridge while operating may damage the meter.*

*RTX INPUT = connect with 50 ohms coaxial cable to the line coming from the transceivers*

*ANTENNA OUTPUT = connect with 50 ohms coaxial cable to the line coming to the antennas*

*RANGE = switch used to select the power measuring range - SELECTOR = switch used to select meter reading AVG or monitoring of P.E.P.*

## CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTIC

MOD.	FREQUENZA	IMPEDENZA	TOLLERANZA	POTENZA MAX.	GAMME DI POTENZA	DIMENSIONI
MOD.	FREQUENCY	IMPEDANCE	TOLLERANCE	MAX. POWER	POWER RANGE FWD	SIZE
CN-30	26 - 28 MHz	50 Ohm	+/- 5 %	1,5 KW.	15 W. / 150 W. / 1,5 KW	140 x 95 x 130
CN-144	140 - 170 MHz	50 Ohm	+/- 5%	1,5 KW.	15 W. / 150 W. / 1,5 KW	140 x 95 x 130
CN-220	1,8 - 220 MHz	50 Ohm	+/- 5 %	1,5 KW.	15 W. / 150 W. / 1,5 KW.	140 x 95 x 130