

# SWR & Power Meter

## INSTRUCTION MANUAL

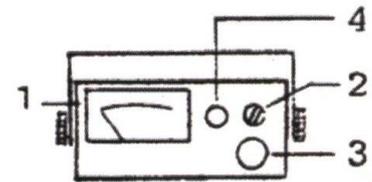
### Model: KP-27

#### SPECIFICATIONS:

Frequency Range:	26 - 30 MHz.
Power Range:	10 W - 1 KW.
Power Scale:	10 W, 100 W, 1 KW.
Maximum Power:	1 KW.
Accuracy 10W Range:	±10 % (AVG), ±15 % (PEP).
100W-1KW Range:	±5 % (AVG), ±10 % (PEP).
SWR Measurement :	Minimum 1 W.
Testing Function:	Forward, PEP Power, SWR
Input / Output Impedance:	50 Ω.
Input / Output Connectors:	“M” type.
Dimension (W/H/D) mm:	170 x 80 x 80 mm.
Weight (Net):	800 g. (w/ holder.).
Accessories:	Operation Manual.

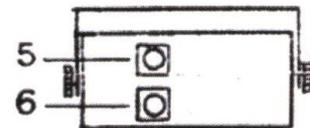
#### <FRONT PANEL>:

- |                         |                                                      |
|-------------------------|------------------------------------------------------|
| 1. Meter Display:       | Indicates FWD power and VSWR ratio.                  |
| 2. Range/Function SW.:  | Selects RF power range 10/100/1KW<br>Or VSWR/CAL     |
| 3. Calibration Control: | Sets full scale deflection when measuring<br>“VSWR”. |
| 4. “AVG/PEP” MONI:      | Selects Average or PEP RF power<br>readings.         |



#### <REAR PANEL>:

- |                     |                                                    |
|---------------------|----------------------------------------------------|
| 5. “TX” Connector:  | Coax connector to transmitter 50 ohm RF<br>output. |
| 8. “ANT” Connector: | Coax connector to 50 ohm antenna<br>system.        |



#### <FORWARD POWER MEASUREMENT>:

- Set the radio transceiver to transmit and read the scale corresponding to the Power Range selected (10 W, 100 W, or 1 KW).
- When the “AVG/PEP” button is “out”, the meter reads average RF power.  
When the button is “depressed” the meter reads Peak Envelope Power for use with SSB and AM transmissions.  
In this mode there will be a slow rise and decay time.

#### <VSWR MEASUREMENT>:

- Set the radio transceiver to transmit mode, slowly turn the “CAL” ADJ control clockwise until the meter is at full scale position.
- Now set the “Function Switch to SWR position whilst still transmitting, the meter will now indicate the “VSWR” ratio.

#### <CAUTION>:

- Since the meter movement is very sensitive, avoid excessive vibration or mechanical shock to the meter.
- The absolute maximum power that should be applied to the meter is 1KW.  
Also observe maximum power inputs of 10W and 100W when using the two lower range.
- The meter must never be reverse connected. Always observe the correct connections to transmitter and antenna as indicate on the rear sockets.
- The meter has been carefully calibrated at the factory, Tampering with any of the internal circuitry or sensors may cause damage  
And will degrade the meter’s accuracy.
- Do not expose the meter to excessive temperatures, high humidity, or strong magnetic fields.

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**Only for use with CB-radios**