OPEK SWR/WATT meter SWR-7, SWR-8 User Manual

INTRODUCTION

This SWR&WATT meter is a highly accurate RF meter for measuring Forward Power, Reversed Power ,and VSWR by using cross-needle analog meter.

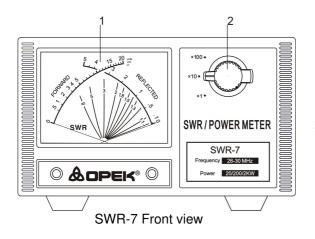
MAIN FEATURE

- 1. Large, precision, 2.5" (64mm) Cross Needlemeter display for ease of reading
- 2. Forward/Reversed/SWR readings display at the same time
- 3. True Directional Coupler for increased accuracy over frequency
- 4. Rugged metal cabinet with speckled black finish and designer style grey injection molded front panel aesthetically complements modern transceivers

SPECIFICATIONS

MODEL	SWR-7	SWR-8
Frequency Range	26-30 MHz	140-160 MHz
		420-460 MHz
Center Cal.	27 MHz (CB)	2 meter VHF : 145 MHz
		70 cm UHF : 440 MHz
Power Range	0 - 2KW	0 - 200W
Power Scale	20/200/2KW	2/20/200W
Maximum Power	2KW	200W
Accuracy LOW (x 1) Range	(AVG) +/- 10%, +/- 15% or better	
Accuracy HIGH (x10, x 100) Range	(AVG) +/- 5%, +/- 10% or better	
Min. Power (Fwd) measured	1W	
Input/Output Connectors	M type ('N' type optional)	
Weight (Net)	770 g	790 g
Insertion Loss	Less than 0.1 dB	
Testing Function	Fwd/Rev Power, SWR	
Input/Output Impedance	50 OHM	
Dimension (W/H/D) mm	140 x 84 x 122	

OPERATION <FRONT PANEL>

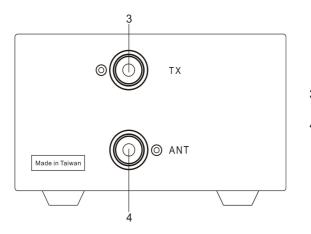


<DESCRIPTION>

- Meter Display : Indicates FWD/REV power in watts and VSWR ratio
 Range switch :
 - Selects RF power range multiplier x 1, x 10, x 100

<REAR PANEL>

<DESCRIPTION>



3. TX connector : Coax connector to transmitter 50 ohm RF output 4. ANT connector : Coax connector to 50 ohm antenna system

<INSTALLATION/OPERATION>

1. Set the RANGE switch to the proper meter multiplier

<FORWARD, REVERSE PWR, SWR MEASUREMENT>

- (X1, X10, X100) for the expected power level of the intended measurement.
- 2. It corresponds to 20/200/2KW forward and 5/50/500W reversed in SWR-7, 2/20/200W forward and 0.5/5/50W reversed in SWR-8 (Fwd : Rev = 4 : 1 in scale)
- 3. Set the radio transceiver to transmit mode and read the scale corresponding to the RANGE selected

[CAUTION]

- 1. Since the meter movement is very sensitive, avoid excessive vibration or mechanical shock to the meter.
- 2. Watch the absolute maximum power could be applied to the meter by different models you bought.
- 3. The meter must never be reverse connected. Always observe the correct connections to transmitter and antenna as indicated on the rear sockets.
- 4. Do not expose the meter to excessive temperatures, high humidity, or strong magnetic fields.
- 5. Contact your local dealer for service. Dealer information is in the back of user manual.

