ZINSTRUCTION

THE RSM200/400 and RSM600 POWER&SWR meter is the most efficient tool in wide range of semi-professional Measuring And control instruments. the measured values can be easily read in the large scale instruments.

The RSM200/400 and RSM600 is an insertion type RF wattmeter and can be permanently fitted into a transmission System For continuous monitoring of station working condition.

The unit can be work without external power supply. but with 13.8DC power which permits to light up the Meter and shows the active led corresponding to the selected RF coaxial line(for RSM600 only)

led sensor 1

DESCRIPTION OF CONTROL

1	POW	ER/SWR	reading	meter	
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2 Indicator adjustment

3 Power range switch

4 Function switch repulled and adjust the instrument by turn at the CAL land, goal to the radio and said and sa

5 FWD /REFLECT POWER/OFF SWITCH

6 SWR calibration potential-meter

7 Average pep to pep switch

8 200/400w select switch

9-12 Antenna connector(connect to the antenna with 50 ohm coaxial cable)

tinu sits to rewor of the unit.

10-13 TX connector (connect to the radio with 50 ohm coaxial cable)

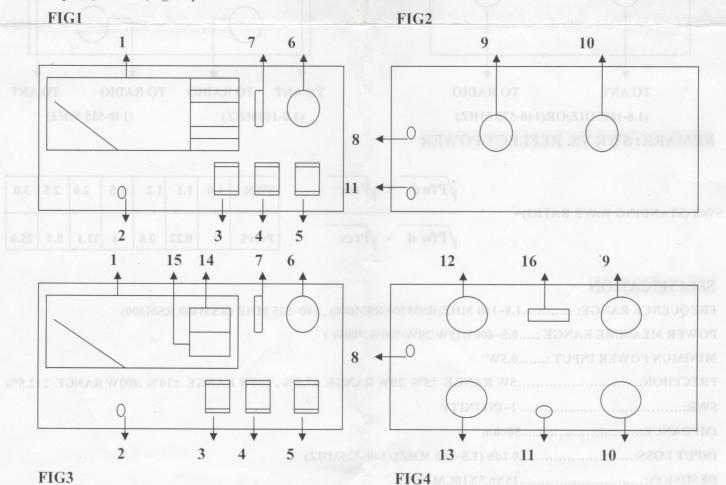
11 Power jack (13.8VDC) light up the meter and sensor 1 / sensor 2 led

16 sensor1/sensor2 switch management (Sensor1/sensor2) switch management (Sensor2) switch mana

REMARK: FIG1/FIG2 FOR RSM200/400

:FIG3/FIG4 FOR RSM600

led sensor 2



INSTALLATION

To install the RSM200/400 or RSM600 simply connect coaxial cable directed to the antenna connector marked "ANT", and

The cable coming from the transmitter or from the linear amplifier to the connector marked "TX"

RSM200/400 or RSM600 is ready to operate.

POWER MEASUREMENTS

1 Select the RANGE (3) switch on the end-scale position value as to the power of the unit

- 2 Select the FUNCTION (4) switch in the power position
- 3 Select the POWER switch the FWD position to measure the direct power(from the radio to antenna)

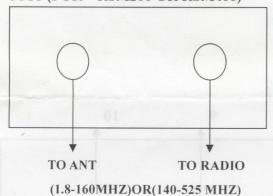
or REF position to measure the reflected power(from antenna to the radio)

4 Select the power value can be read on the corresponding scale.

SWR MEASUREMENTS

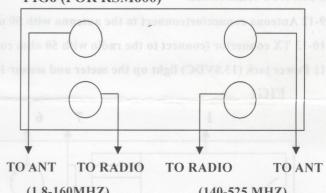
- 1 Select the RANGE (3) switch on the end-scale position value as to the power of the unit.
- 2 Select the FUNCTION (4) switch in the CAL position .
- 3 Let the radio transmit and adjust the instrument by turning the CAL knob, position the end-scale index in the CAL position.
- 4 Select the FUNCTION (4) switch in the SWR position
- 5 Read the SWR value in the above scale.





REMARK: SWR VS. REFLECT POWER

FIG6 (FOR RSM600)



(1.8-160MHZ)

(140-525 MHZ)

SWR (STANDING WAVE RATIO)=

Pfwd	+	Prev	
Pfw d	-	Prev	

SWR	1.0	1.1	1.2	1.5	2.0	2.5	3.0
Prev%	0	0.22	0.8	4	11.1	8.4	25.0

SPECIFICATION

FREQUENCE RANGE:1.8~160 MHZ(RSM200,RSM600), 140~525 MHZ (RSM400,RSM600)

POWER MEASURE RANGE :....0.5~400W(5W/20W/200W/400W)

MINIMUN POWER INPUT :.....0.5W

PRECISION:......5W RANGE ±5% ,20W RANGE ±7.5% , 200W RANGE ±10% ,400W RANGE ±12.5%

SWR:..... 1~INFINITY

IMPDANCE:.....50ohm

INPUT LOSS:.......................0.2db (1.8~160 MHZ),(140~525MHZ)

DEMISION:.....15X6.5X10CM

WEIGHT:.....720gr.(RSM600), 630gr.(RSM200,RSM400)

ROGER