INSTRUCTION

THE RS-200/400 and RS-600 or RS-1000 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 RS-200/400 and RS-600 or RS-1000 is an insertion type RF $w_{attmeter}$ 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 RS-600 and RS-1000)

16

14 led sensor 1

sensor1/sensor2 switch

REMARK:FIG1/FIG2 FOR RS-200/400

led sensor 2 (BANK2 ,BANK3 ,BANK4)

:FIG3/FIG4 FOR RS-600/1000

DESCRIPTION OF CONTROL

1 POWER/SWR reading meter

2 Indicator adjustment

3 Power range switch

4 Function switch

5 FWD /REFLECT POWER/OFF SWITCH

6 SWR calibration potential-meter

7 Average pep to pep switch

8 200W/400W select switch

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

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

FIG1 FIG2 1 9 10 6 11◀ 0 2 3 5 4 12 16 14 15 84 70 13 11 10 3 FIG4 FIG3

INSTALLATION

To install the RS-200/400 and RS-600 or RS-1000 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" RS-200/400 and RS-600 or RS-1000 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.

FIG5 (FOR RS-200 OR RS-400)

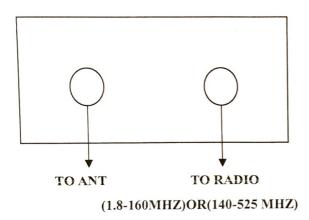
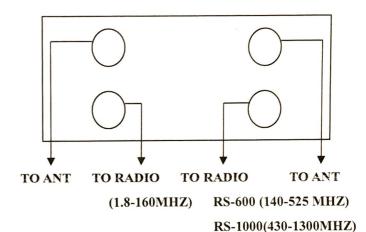


FIG6 (FOR RS-600 or RS-1000)



REMARK: SWR VS. REFLECT POWER

1.2 1.5 2.0 2.5 3.0 **SWR** 1.0 1.1 SWR (STANDING WAVE RATIO)= Prev% 0 0.22 0.8 11.1 8.4 25.0

SPECIFICATION

FREQUENCE RANGE:1.8~160 MHZ(RS-200,RS-600 ,RS-1000) , 140~525 MHZ (RS-400,RS-600) ,

430~13000MHZ(RS-1000)

 $POWER\ MEASURE\ RANGE: 0.5\sim 400W (5W/20W/200W/400W)\ ,\ RS-1000 (430-1300MHZ)\ only\ 200W\ 200/400W$

SWITCH DISABLE

MINIMUN POWER INPUT :.....0.5W

PRECISION:......5W RANGE $\pm 5\%$, 20W RANGE $\pm 7.5\%$, 200W RANGE $\pm 10\%$, 400W RANGE $\pm 12.5\%$

SWR:....1~INFINITY

IMPDANCE:.....50ohm

INPUT LOSS:......0.2db $(1.8\sim160\ MHZ)$, $(140\sim525MHZ)$, 0.3db(430-1300MHZ)

DEMISION: 15X6.5X10CM

WEIGHT:.....720gr.(RS-600), 630gr.(RS-200/400), 730gr.(RS-1000)