INSTALLATION

To install the AV-200/400 or AV-600/1000 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"

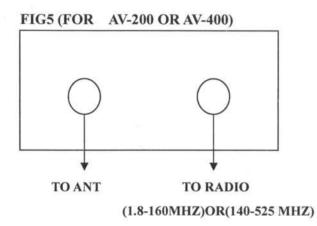
AV-200/400 or AV-600/1000 is ready to operate.

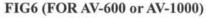
POWER MEASUREMENTS

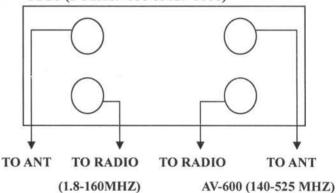
- 1 Select the RANGE (3) switch on the end-scale position value as to the power of the unit
- 2 Select the FUNCTION (4) switch in the power position
- 3 Select the POWER switch the FWD position to measure the direct power(from the radio to antenna)
 - or REF position to measure the reflected power(from 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.







AV-1000(430-1300MHZ)

REMARK: SWR VS. REFLECT POWER

SWR (STANDING WAVE RATIO)=

$\sqrt{}$	Pfwd	+ Prev	
/	Pfwd	- \(\sqrt{Prev} \)	

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(AV-200,AV-600 ,AV-1000) , 140~525 MHZ (AV-400,AV-600) ,

430~13000MHZ(AV-1000)

POWER MEASURE RANGE :....0.5~400W(5W/20W/200W/400W), AV-1000(430-1300MHZ) only 200W 200/400W

SWITCH

DISABLE

MINIMUN POWER INPUT :.....0.5W

SWR:.....1~INFINITY

IMPDANCE:.....50ohm

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

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

INSTRUCTION

THE AV-200/400 and AV-600 or AV-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 AV-200/400 and AV-600 or AV-1000 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 AV-600 and AV-1000)

14 led sensor 1

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

16 sensor1/sensor2 switch

15 led sensor 2 (BANK2 ,BANK3 ,BANK4)

:FIG3/FIG4 FOR AV-600/1000

REMARK: FIG1/FIG2 FOR AV-200/400

FIG1 FIG2 1 7 9 6 10 114 0 2 3 5 4 15 14 6 12 16 84 3 5 4 13 11 10 FIG3 FIG4