

### Section 3

## RF HARDWARE

Updated 16 February 2010

### AVAIR SWR and Power Meters

Frequency  
1.8 – 1300 MHz



This range of AVAIR SWR and Power Meters includes models for testing and field tuning antennas operating in various frequency ranges as listed in the table below. They have a large clear meter for easy measurement readings. Average or PEP measurements can be accessed at the switch of a button.

All models are an insertion type RF wattmeter and can be permanently fitted into a transmission system for continuous monitoring of station working conditions. The meters can be operated without external power, however the built-in lamp for illumination requires an external 13.8 volt DC power supply.

Operating instructions are provided with each meter.



SPECIFICATIONS	AV-200	AV-400	AV-1000
Frequency Ranges	1.8 – 160 MHz	140 – 525 MHz	Band 1 : 1.8 – 160 MHz Band 2 : 430 – 450 MHz Band 3 : 800 – 930 MHz Band 4 : 1240 – 1300 MHz
Switchable Power Range	5, 20, 200 and 400 Watt Average or PEP	5, 20, 200 and 400 Watt Average or PEP	5, 20, 200 and 400 Watt Average or PEP (between 430 and 1300 MHz, 200 and 400 Watt only)
Precision	5 Watt range $\pm 5\%$ 20 Watt range $\pm 7.5\%$ 200 Watt range $\pm 10\%$ 400 Watt range $\pm 12.5\%$	5 Watt range $\pm 5\%$ 20 Watt range $\pm 7.5\%$ 200 Watt range $\pm 10\%$ 400 Watt range $\pm 12.5\%$	5 Watt range $\pm 5\%$ 20 Watt range $\pm 7.5\%$ 200 Watt range $\pm 10\%$ 400 Watt range $\pm 12.5\%$
Minimum Power Input	0.5 Watt	0.5 Watt	0.5 Watt
SWR	1 ~ Infinity	1 ~ Infinity	1 ~ Infinity
Impedance	50 Ohm	50 Ohm	50 Ohm
Input Loss	0.2 dB	0.2 dB	0.2 dB (1.8 – 160 MHz) 0.3 dB (430 – 1300 MHz)
Rear Connectors	2 x SO-239	2 x SO-239	2 x SO-239 for HF and VHF 1.8–160 MHz 2 x N-Type for UHF and above 430–1300 MHz
Width x Height x Depth	15 cm x 6.5 cm x 10 cm	15 cm x 6.5 cm x 10 cm	15 cm x 6.5 cm x 10 cm
Weight	630 grams	630 grams	730 grams

