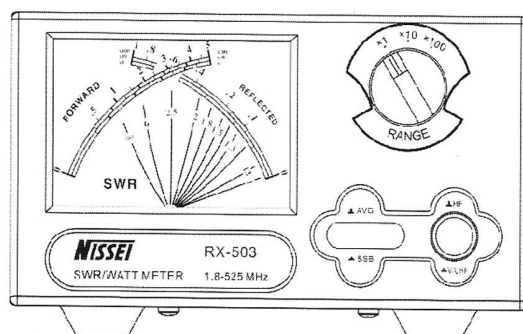


SWR/POWER METER USER MANUAL



••• RX-103
••• RX-203
••• RX-403
••• RX-503

■ Instruction

This SWR & POWER meter is a highly accurate RF meter for measuring Forward Power, Reversed Power, & VSWR.

■ Main Features:

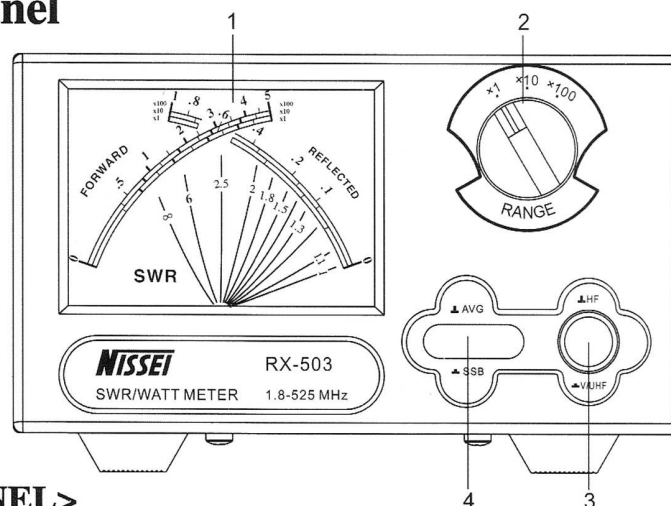
1. Large cross needle meter display simultaneously Forward and Reversed power with SWR.
2. Forward RF power readings (switchable to indicate either average power or Peak Envelope Power [PEP], for SSB and AM transmitters), reversed RF power readings, and VSWR ratio.
3. True Directional Coupler for increased accuracy over frequency.
4. LED Backlighting provides smooth, even illumination.
5. Three Color Scale for improved readability.

■ Specifications

MODEL	RX-103	RX-203	RX-403	RX-503
Frequency Range	1.6-60MHz	1.8-200MHz	125-525MHz	1.8-525MHz
Power range	0-1KW	0-200W		
Power Scale	10/100/1KW	2/20/200W		
Maximum Power	1KW	200W		
Accuracy:LOW power	(AVG) +/- 10%, (PEP) +/- 15%			
Accuracy: HIGH(2)power	(AVG) +/- 5%, (PEP) +/- 10%			
Minimum Power for SWR	1-3W (varied by model)			
Input/Output Connectors	M type	M or/and N type		
Weight(Net)	780g	790g	800g	950g
Insertion Loss	Less than 0.1 dB			
Testing Function	Fwd/Rev Power, PEP, SWR			
Input/ Output Impedance	50 OHM			
Dimension (W/H/D) mm	140 x 84 x 122			
Accessories	Operation Manual, 13.8 DC Wire			

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■ Front Panel

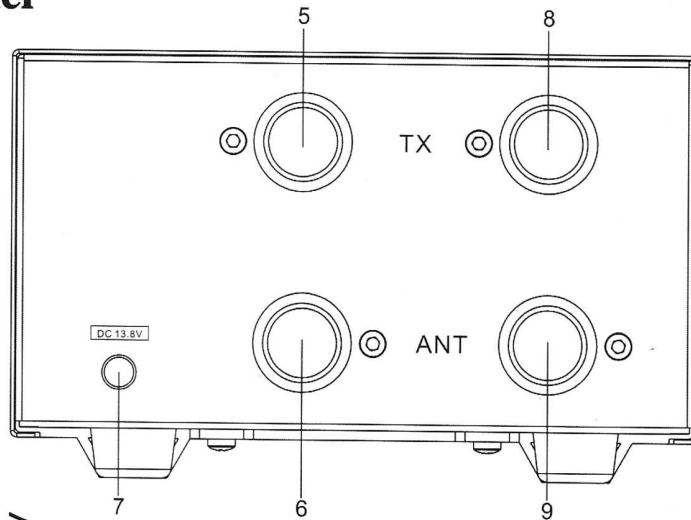


<FRONT PANEL>

1. Meter Display : Indicates FWD/REV power in watts and VSWR ratio
2. Range switch : Selects RF power range multiplier x 1, x 10, x 100
3. HF/VUHF band switch (round push button) : Select HF (out) or VUHF (depressed). Available on RX-503 only.
4. AVG / SSB (elliptical push button) : Selects Average (out) or SSB (depressed) PEP RF Power readings

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■ Rear Panel



< REAR PANEL >

- 5. TX connector : Coax connector to transmitter 50 ohm RF output
- 6. ANT connector : Coax connector to 50 ohm antenna system
- 7. 13.8V DC connection (via power supply) for meter LED illumination (watch out the LED wire must be correctly connected, Red to '+', Black to '-'. Wrong connection will cause LED burn-out)
- 8 & 9. 2nd pair of TX/ANT connector : available on RX-503 only

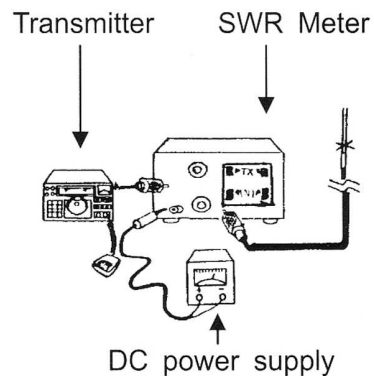
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■ Forward Power Measurement Reverse Power Measurement Vswr Measurement

1. Set the RANGE switch to the proper meter multiplier (X1, X10, X100) for the expected power level of the intended measurement. On RX-103, this corresponds to 10/100/1K Watts forward and 2/20/200 watts reflected full scale. On RX-203, 403, 503 this corresponds to 2/20/200 watts forward and 0.5/5/50W watts reflected full scale.
2. Set the HF/VUHF band switch (round push button) to the frequency of the intended measurement (this corresponds to RX-503 only).

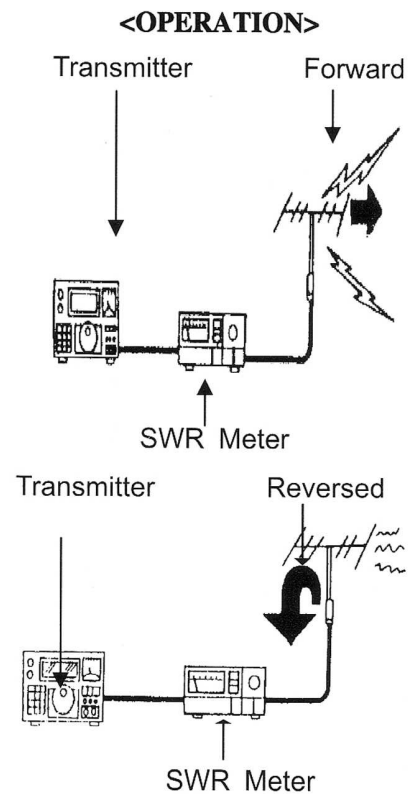


<INSTALLATION>



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3. Set the radio transceiver to transmit mode and read the scale corresponding to the RANGE selected
4. When the AVG / PEP button is 'out', the meter reads average RF power. When the button is 'depressed', the meter reads Peak Envelope Power for use with SSB and AM transmissions. In this mode, there will be a slow rise and decay time.
5. The beauty of cross needle meter is Reversed, and SWR can be read simultaneously.



NISSEI

TAIWAN NISSEI SOKKI CO. , LTD.

No.2 Lane 21, Cheng Kong Rd.
Pan Chiao, Taipei Hsien, Taiwan.
Tel: 886-2-29626195
Fax: 886-2-29577492
Homepage: <http://www.nissei.com.tw>
E-mail: info@nissei.com.tw

Distributor's info. :

