



100 Hancock Ave
Hamilton, Ohio

www.jetstream-usa.com
800-524-4889

Instructions for JTWXVHF

SWR/WATTMETER Instructions



JTWXVHF

This wattmeter series offer many innovative features typically not found at this price level

- DC Grounded Antenna connector prevents electrostatic buildup.
- True Directional Coupler for increased accuracy over frequency.
- Low Bias Schottky Diode Detectors for increased linearity.
- Precision, large (104mm) Cross Needle Meter simultaneously displays forward and reflected power with SWR.
- Individual Meter Scales for each power range increase reading accuracy.
- LED backlighting provides smooth, even illumination.
- Three Color Scale for improved readability.
- Rugged metal cabinet with speckled black finish and designer style grey injection molded front panel aesthetically complements modern transceivers.
- DC Power Cable Included.

Specifications

Model	JTWXVHF
Frequency Range	1.6-200 MHz
Center Calibrated	1.6-60 MHz at 28.5 MHz 140-150 MHz at 145 MHz
Power Range	0 - 200W
Power Scale	2/20/200W
Maximum Power	200W
Accuracy	± 10% of Full Scale or better
Min. Power (Forward)	1W
Function	Forward Power, Reversed Power, SWR, and PEP
Input/Output Impedance	50 ohm
Input/Output Connectors	SO239
Input power	9-14 VDC 200 mA maximum
Dimension W H D (//)	184(W) X118(H) X131(D) mm
Weight	910g

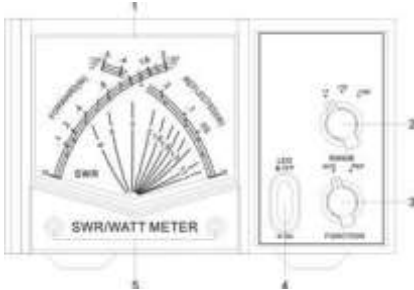


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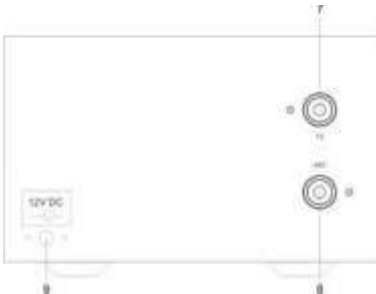
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Front Panel



1. Indicator 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. AVG/PEP switch : Select Average or SSB PEP
4. Indicator ON/OFF push button (elliptical) : LED backlight ON/OFF
5. Zero adjust screws of analog cross needle meter

Rear Panel



1. TX connector : Coax connector to transmitter 50 ohm RF output
2. ANT connector : Coax connector to 50 ohm antenna system
3. 13.8V DC connection (via power supply) for meter LED illumination

Note : DC power is only required to run the meter backlight or active circuitry in JTWXVHF.

Forward/Reverse Power/SWR Measurement

- A. Set the RANGE switch to the proper meter multiplier (X1, X10, X100) for the <INSTALLATION> expected power level of the intended measurement.
- B. In JTWXVHF, it corresponds to 2/20/200 watts forward and 0.5/5/50 watts reflected full scale (Fwd : Ref=4:1)
- C. Set the radio transceiver to transmit mode and read the scale corresponding to the RANGE selected
- D. When switch to 'AVG', the meter reads average RF power. When switch to 'PEP', 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.
- E. Push LED ON/OFF button when LED light is needed.



Caution

1. Since the meter movement is very sensitive, avoid excessive vibration or mechanical shock to the meter.
2. Watch the absolute maximum power could be applied to the meter by different models you bought.
3. The meter must never be reverse connected. Always observe the correct connections to transmitter and antenna as indicated on the rear sockets.
4. Do not expose the meter to excessive temperatures, high humidity, or strong magnetic fields.

Optional Accessories



JT40R
Lightning Arrestor



JTCS2M
2 Position Coax Switch