



100 Hancock Ave  
Hamilton, Ohio

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

# Instructions for JTWXHF & JTWXVU

## SWR/WATTMETER Instructions



JTWXVU

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.
- Precision True Active PEP Circuit (JTWXHF)
- 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	JTWXHF	JTWXVU
Frequency Range	1 6 60 MHz (6m/HF).	125 525 MHz (70cm/UHF)
Center Calibrated	28.5 MHz	140 150 MHz(2m/VHF) at-145 MHz 430 440 MHz(70cm/UHF) at 435 MHz
Power Range	0 - 2KW	0 - 200W
Power Scale	20/200/2KW	2/20/200W
Maximum Power	2KW	200W
Accuracy	± 10% of Full Scale or better	± 10% of Full Scale or better
Min. Power (Forward)	1W	1W
Function	Forward Power, Reversed Power, SWR, and Active PEP	Forward Power, Reversed Power, SWR, and PEP
Input/Output Impedance	50 ohm	50 ohm
Input/Output Connectors	SO239	SO239
Input power	9-14 VDC 200 mA maximum	9-14 VDC 200 mA maximum
Dimension W H D (//)	184(W) X118(H) X131(D) mm	184(W) X118(H) X131(D) mm
Weight	900g	920g

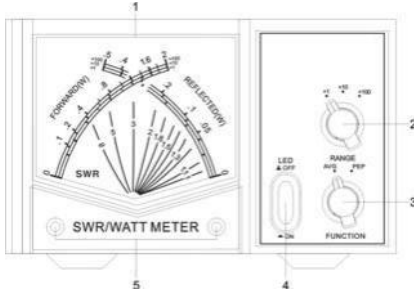


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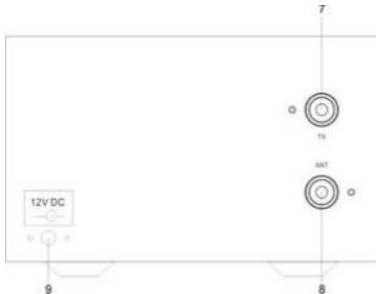
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## Front Panel



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

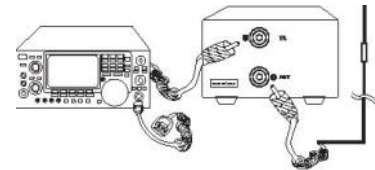


1. TX connector : Coax connector to transmitter 50 ohm RF output
2. ANT connector : Coax connector to 50 ohm antenna system
3. 13.8V DC connection (via power supply) for meter LED illumination

Note : DC power is only required to run the meter backlight or active circuitry in JTWXHF. Except JTWXHF, this meter will function without DC power in the AVG mode, even when switch off.

## 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 JTWXHF, it corresponds to 20/200/2K watts forward and 5/50/500 watts reflected full scale (Fwd : Ref=4:1) In JTWXVU, 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 (in JTWXHF, it also activate PEP active mode).



## 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