

MFJ-816 Instruction

Thank you for purchasing the MFJ-816 HF SWR **Wattmeter**. The **MFJ-816** measures forward power, reflected power and SWR. The **wattmeter measures** power on two **scales, 30 watts and 300 watts**. The MFJ-816 **is usable from 1.8 MHz thru 30 MHz**.

Installation

1. Connect of a coax cable from the transmitter to the **TRANSMITTER Coax** connector of the MFJ-816.
2. Connect the antenna cable to the **ANTENNA** coax connector of the MFJ-816.

Operation 1. To Measure SWR:

Set the push button to the **FWD/SET** position. Transmit a continuous carrier and set the **SWR/POWER** control for a full scale deflection on the meter. Set the push button to the **REF/SWR** position and read the SWR.

Note: The SWR sensitivity must be reset when power level is changed. This will maintain and accurate SWR reading.

2. To Measure Power

300 Watt Scale

Set the **SWR/POWER** control to the 300 mark. Set the_ push button to the **FWD/SET** position to read forward power and to **REF/SWR** to read reflected power. This scale reads maximum of 300 watts.

30 Watt Scale

The 30 watt scale can be used to measure forward and reflected power up to 30 watts. To measure forward power, set the push button to the **FWD/SET** position. To measure reflected power, set the push button to the **REF/SWR** position.

The 30 Watts position is not calibrated at the factory because of variations due to components tolerance. To calibrate the 30 watt scale, follow this procedure: Set the push button to the **FWD/SET** position and the **SWR/POWER** control to 300. Transmit a continuous carrier and not the power level on the 300 watt scale. Power from the transmitter should be set as close to 30 watts as possible without exceeding 30 watts. This will give the most accurate calibration. Now rotate the **SWR/POWER** control so that the reading on the 30 watt scale is the same as what was noted on the 300 watt scale. Mark the dial for the calibrated 30 watt range.

