INTRODUCTION
TM-3000/2000 is a compact test meter to indicate the condition of 1.6-60 MHz / 26 -30 MHz antenna system and transmitter with an impedance of 50 ohm. With TM series you can measure SWR, relative output power of the transmitter and AM modulation.

SPECIFICATIONS

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</thead>
<tbody>
<tr>
<td>TM-3000</td>
<td>1.6 - 60 MHz</td>
<td>0W - 3KW</td>
<td>10W/30W/300W/3KW</td>
<td>3KW</td>
<td>MAX 100%</td>
<td>(AVG) +/- 10%</td>
<td>(AVG) +/- 5%</td>
<td>Minimum 1W</td>
<td>POWER, SWR, MOD.</td>
<td>50 OHM</td>
<td>M type (SO-239)</td>
<td>190x85x135 (w/o holder)</td>
<td>800g (w/o holder)</td>
<td>Operation Manual</td>
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<tr>
<td>TM-2000</td>
<td>26 - 30 MHz</td>
<td>0W - 1KW</td>
<td>10W/100W/1KW</td>
<td>1KW</td>
<td>MAX 100%</td>
<td>(AVG) +/- 10%</td>
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<FRONT PANEL>
1. Meter Display : Indicates FWD/REV power and VSWR ratio, AM Modulation.
2. Function switch : Selects FWD/REV power, VSWR, and Modulation
3. Range switch : Selects RF power range
4. Calibration control knob : Set full scale deflection when measuring VSWR and AM modulation
5. AVG/PEP MONI. (elliptical push button) : Selects Average or PEP RF Power readings

<REAR PANEL>
6. Meter Zero Adj. : Machnical zero adjustment for meter needle
7. TX connector : Coax connector to transmitter 50 Ohm RF output.
8. ANT connector : Coax connector to 50 Ohm antenna system.
9. 13.8V DC connection for meter illumination.
10. Calibration MONI. (round push button) : Selects calibration or SWR /MOD readings.
<INSTALLATION>

Transmitter     SWR Meter

DC power supply

<FORWARD POWER MEASUREMENT>

1. Set the FUNCTION switch to FWD
2. Set the radio transceiver to transmit mode and read the scale corresponding to the Power Range selected.
3. 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.

<OPERATION>

Transmitter     Forward

<REVERSED POWER MEASUREMENT>

This measures the reverse power on the coaxial cable between transceiver and antenna. The rest of the settings are the same as that of <FORWARD POWER MEASUREMENT>

<VSWR MEASUREMENT>

1. Set the FUNCTION switch to SWR position
2. Push the Calibration MONI. to CAL/SET position (button "drepressed")
3. Slowly turn the calibration control knob clockwise until the meter pointer is at full scale position
4. Push the Calibration MONI. to SWR/MOD position (button "out")
   Set the transceiver to transmit mode.

<AM MODULATION LEVEL MEASUREMENT>

1. Set the FUNCTION switch to MOD position
2. Push the Calibration MONI. to CAL/SET position (button "drepressed")
3. Slowly turn the calibration control knob clockwise until the meter pointer is at full scale position
4. Push the Calibration MONI. to SWR/MOD position (button "out")
   Set the transceiver to transmit mode.

[CAUTION]

1. Since the meter movement is very sensitive, avoid excessive vibration or mechanical shock to the meter.
2. The meter must never be reverse connected. Always observe the correct connections to transmitter and antenna as indicated on the rear sockets.
3. The meter has been carefully calibrated at the factory. Tampering with any of the internal circuitry or sensors may cause damage and will degrade the meter's accuracy.
4. Do not expose the meter to excessive temperatures, high humidity, or strong magnetic fields.