

Shakespeare® Style ART-3 Antenna / Radio Tester

An easy to use pocketable meter that checks:

· Receiver Function · Output Power · Antenna VSWR

Use Internal Battery or External 12 VDC

SET-UP:

1. Attach the antenna to the "ANT" connection on the ART-3 meter.
2. Use a 1-meter length of 50-ohm cable (Shakespeare part #4079, sold separately) to connect the transceiver to the meter.
3. If desired, connect the supplied power cord to 12VDC only, making sure to observe polarity to avoid damage.

To Test Radio Transmitter Output Power:

1. Slide ART-3 Top Switch to "WATTS" mode.
2. Key VHF transmitter (Mic PTT) on Channel 72. Read top scale of the meter.

To Test Antenna VSWR):

1. Slide ART-3 Top Switch to "SET"
2. Transmitter on radio and turn "ADJ" knob until Needle just touches the leading edge of the blue "Set" line.
3. Slide top Switch to "VSWR". Read middle scale.
4. A reading higher than 3 indicates the need for inspection and possible replacement of the PL-259 connector, the coax cable, or the antenna. Seek technical help as needed.

To Test VHF Receiver:

1. Set radio to CH72, volume up to 1/3 and squelch to minimum - counter clockwise.
2. Slide ART-3 Bottom Switch to "Rx TEST".
3. A Tone should be heard through the Noise on the Radio. If no Tone is heard seek technical help.
4. Slide Bottom Switch to "PWR OFF".

To Test ART-3 Internal Battery:

1. Slide Bottom Switch to "BAT". Read "BAT" scale.
2. Slide to "PWR OFF" when done.
3. Use only type 23A or MN21 12V alkaline battery.

ART-3 SPECIFICATIONS	
Frequency Range:	155-158 MHz
RF Power Scale:	0 to 30 watts
Impedance:	50 ohms
Accuracy:	10%
Connectors:	SO-239
Construction:	Die-cast aluminum
Signal Generator:	3Khz Deviation
Tone:	1000 Hz
RF Level:	-115 dBM (approx.)

Although the meter can be left in-line, to minimize line losses it is recommended that the ART-3 be removed from the system after measurement.

Shakespeare Electronic Products Group

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