



OPERATING INSTRUCTIONS - CATALOG NO. 1120 RF METER

Taking Readings:

Hold the meter as shown (See Figure 1). Do not cover the top of the meter. This prevents your hand from shielding electric fields or microwaves. Normally, the indoor RADIO/MICROWAVE (RF) readings should be near zero in most parts of a home or office, and will almost certainly be zero if you cup your hand in front of the antenna (See Figure 1) or place the meter in a metal box.

RF Setting (Radio/Microwave):

Turn the knob to "RF", use the bottom scale on the display (0.01-1 milliwatt per square centimeter) and point the meter toward the radio/microwave source (AMI Meter).

High Radio/Microwave Power Sources

With the setting switched to "RF" and pointing the RF Meter toward the following sources, you can see how high RF sources compare to AMI meters, reading the bottom scale on the display. Strong sources include:

- Cordless phones, CB, or amateur radio transmitter
- Microwave ovens near door seal. A reading of more than 0.2 mW/cm^2 (needle just to the right of halfway up) at a distance of six feet suggests a leaking microwave door seal (which should be repaired).

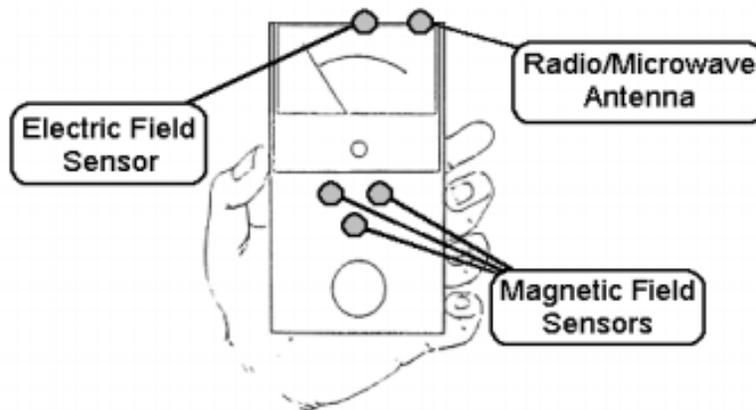


FIGURE1

Other Settings:

Setting A – For use with magnetic fields (0-100 milligauss range)

Setting B – For use with magnetic fields (0-3 milligauss range)

Setting C – For use with electric fields (40 Hz – 100 KHz)



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Battery Test:

Switch the knob to “Battery Test”. If the battery needs replacement, the needle will be to the left of the line “Batt. Test” on the display.

Calibration:

The TESCO RF Meters are shipped calibrated to their specifications. Recalibration is not required within 10 years; however, if a calibration certification compliant with ISO 17025 is required, the meter must be recertified at least once a year in order to remain in compliance with that standard. Accuracy of the meters is guaranteed to within the specifications whether or not a certificate is issued.

Changing the Battery:

The battery is a 9 Volt alkaline battery. The battery will last up to 80 hours of continuous use, while the transistor type will last about 40 hours. Turn the meter to the “OFF” position. Unscrew the back (four screws) and slowly separate the back cover. **DO NOT PULL APART RAPIDLY** – It may break the wires. Disconnect the battery and slide it out by pushing it out from the back. Replace/Reconnect the new battery and reassemble. Leave the meter OFF while not in use; even when the meter is set to “Battery Test”, it will draw some power.