

WAVETEK[®]
Meterman[™]

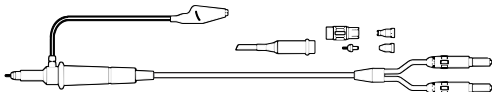
Operator's Manual

RF241
RF Probe

RF Probe



RF241 RF Probe



Introduction

The Model RF241 RF Probe is designed to operate with 10 megohm input digital multimeters. The output of the RF Probe connects to the meter through the RF probe banana plugs. The probe converts AC signals in the RF range to equivalent DC levels for measurement by the meter. The probe is designed principally for use on the 20VDC range. The probe is peak-sensing, and the readout is in equivalent RMS volts (1 VRMS = 1 VDC).

Warning

Use Caution when working with hazardous circuits that may have high voltages and/or frequencies.

Operating Instructions

1. Set the multimeter on desired DC voltage range (1 VRMS = 1 VDC).
2. Plug the probe's output banana plugs into the multimeter, making sure to insert in the correct polarity, red banana plug into V – Input Connector and black banana plug into COM Input Connector (reverse polarity will result in a negative reading).
3. Connect the probe ground (shield) alligator clip to the circuit low side or chassis ground as close as possible to the measurement point.
4. Touch probe tip to the RF signal point to be measured and read the meter in volts RMS.

Warranty

The RF 241 RF Probe is warranted against any defects of material or workmanship within a period of one (1) year following the date of purchase of the probe by the original purchaser or original user.

Any RF probe claimed to be defective during the warranty period should be returned with proof of purchase to an authorized Wavetek Meterman Service Center or to the local Wavetek Meterman dealer or distributor where your multimeter was purchased. See maintenance section for details.

Any implied warranties arising out of the sale of a Wavetek Meterman RF probe, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the above stated one (1) year period. Wavetek Meterman shall not be liable for loss of use of the probe or other incidental or consequential damages, expenses, or economical loss or for any claim or claims for such damage, expenses or economical loss.

Some states do not allow limitations on how long implied warranties last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Repair

Read the warranty located at the front of this manual before requesting warranty or non-warranty repairs. For warranty repairs, any multimeter accessory claimed to be defective can be returned to any Wavetek Meterman authorized distributor or to a Wavetek Meterman Service Center for an over-the-counter exchange for the same or like product. Non-warranty repairs should be sent to a Wavetek Meterman Service Center. Please call Wavetek Meterman or enquire at your point of purchase for the nearest location and current repair rates. All multimeter accessories returned for warranty or non-warranty repair or for calibration should be accompanied by the following information or items: company name, customer's name, address, telephone number, proof of purchase (warranty repairs), a brief description of the problem or the service requested, and the appropriate service charge (for non-warranty repairs). Service charges should be remitted in the form of a check, a money order, credit card with expiration date, or a purchase order made payable to Wavetek Meterman or to the specific service center. For minimum turn-around time on out-of-warranty repairs please phone in advance for service charge rates. The multimeter accessory should be shipped with transportation charges prepaid to one of the addresses shown below or to a service center.

in U.S.A.

Wavetek Meterman
1420 75th Street SW
Everett, WA 98203
Tel: 1-877-596-2680
Fax: 425-446-6390

in Canada

Wavetek Meterman
400 Britannia Rd. E. Unit #1
400 Britannia Rd. E. Unit #1
Mississauga, ON L4Z 1X9
Tel: (905) 890-7600
Fax: (905) 890-6866

in Europe

Wavetek Meterman
52 Hurricane Way
Norwich, NR6 6JB, U.K.
Tel: int + 44-1603-404824
Fax: int + 44-1603-482409

The instrument will be returned with the transportation charges paid by Wavetek Meterman.

Specifications

Frequency Range

100 kHz to 650 MHz

Accuracy

100 KHz to 250 MHz

± 1 dB

250 MHz to 650 MHz

± 3 dB

Output Impedance

10M Ω

Reading may be 5% high if a
22M Ω meter is used.

Maximum AC Input Voltage

50 VRMS

Input Capacitance

5pF nominal

Operating Temperature

100 KHz to 250 MHz:

-25°C to +40°C, 80% relative humidity

250 MHz to 650 MHz:

-0°C to +50°C, 80% relative humidity



Safety: Meets EN61010-1 Cat I, 50V

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Specifications subject to change.

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U.S. Service Center
Wavetek Meterman
1420 75th Street SW
Everett, WA 98203
Tel: (877) 956-2680
Fax: 425-446-6390

Canadian Service Center
Wavetek Meterman
400 Britannia Rd. E. Unit #1
Mississauga, ON L4Z 1X9
Tel: (905) 890-7600
Fax: (905) 890-6866

European Distribution Center
Wavetek Meterman
52 Hurricane Way
Norwich, NR6 6JB, England
Tel: (44) 1603-404-824
Fax: (44) 1603-482-409