

AC readings are ac-coupled, true rms, and are valid from 5% to 100% of range for CF 1.4. For crest factors other than 1.4, add $\pm(2\%$ or reading + 2% of range). Maximum CF is 3 at full scale, 6 at half scale.

Function	Range	Accuracy
\tilde{V} (45 Hz to 1 kHz)	400.0 mV	$\pm(1.9\%+4)$
	4.000 V	$\pm(1.9\%+2)$
	40.00 V, 400.0 V, 1000 V	$\pm(1.5\%+2)$
\bar{V}	4.000 V, 40.00 V, 400.0 V, 1000 V	$\pm(1.3\%+1)$
$m\bar{V}$	40.00 mV	$\pm(1.3\%+5)$
	400.0 mV	$\pm(1.3\%+1)$
Ω	400.0 Ω	$\pm(0.4\%+2)$
	4.000 k Ω , 40.00 k Ω , 4.000 M Ω	$\pm(0.4\%+1)$
	400.0 k Ω	$\pm(0.6\%+1)$
	40.00 M Ω	$\pm(1\%+3)$
Capacitance	99.99 nF, 999.9 nF, 9.999 μ F,	$\pm(1.9\%+2)**$
	99.99 μ F, 999.9 μ F	$\pm(1.9\%+2)**$
	9999 μ F	$\pm 10\%$ typical
ω	400 Ω	5% typical***
40 Ω	40.00 Ω , 400.0 Ω ,	5% typical***
\rightarrow	2.450 V	$\pm 2\%$ typical

* In 40 Ω and 40 mV ranges, thermals may introduce additional errors. Maximum accuracy is obtained when both probe tips are maintained at the same temperature.

** Accuracy applies when measuring film capacitors or better and the open lead reading is subtracted from the measurement. This meter uses a dc-type measurement technique.

*** Accuracy applies after lead resistance compensation.

Function	Range	Resolution	Accuracy	Burden Voltage
\tilde{A} (45 Hz to 1 kHz)	4.000 mA	0.001 mA	$\pm(1.5\%+4)$	11 mV/mA
	40.00 mA	0.01 mA	$\pm(1.5\%+2)$	11 mV/mA
	4 A	0.001 A	$\pm(1.5\%+4)$	0.03 V/A
\bar{A}	4.000 mA	0.001 mA	$\pm(0.5\%+5)$	11 mV/mA
	40.00 mA	0.01 mA	$\pm(0.5\%+2)$	11 mV/mA
	4 A	0.001 A	$\pm(0.5\%+5)$	0.03 V/A
	10.00 A*	0.01 A	$\pm(0.5\%+2)$	0.03 V/A

* 10 A continuous, 20 A for 30 seconds.

Function	Range	Accuracy
Frequency*	99.99, 999.9, 9.999 kHz, 20.00 kHz	$\pm(0.01\%+1)$

*For rectangular waveforms $25\% \leq$ duty cycle $\leq 75\%$, V ac ≤ 1 kHz

Frequency Counter Sensitivity

Input Range*	Minimum Sensitivity (RMS Sine Wave)	
	500 Hz to 20 kHz	1.0 Hz to 500 Hz**
4 V ac	0.3 V	0.7 V
40 V ac	3 V	7 V
400 V ac	30 V	70 V
1000 V ac	300 V	Not Applicable

* Maximum input for specified accuracy = 10 x Range or 1000 V
** Display rattle for sine waves below 500 Hz = 5 counts

Function	Input Impedance (Nominal)	
\bar{V} , $m\bar{V}$, \tilde{V}	>10 M Ω , <100 pF	
	Common Mode Rejection Ratio (1 k Ω Unbalanced)	Normal Mode Rejection
\bar{V} , $m\bar{V}$	>120 dB at dc, 50 Hz, or 60 Hz	>60 dB at 50 Hz or 60 Hz
\tilde{V}	>60 dB, dc to 60 Hz	
	Open Circuit Test Voltage	Full Scale Voltage
Ω	<1.3 V dc	To 4.0 M Ω 40 M Ω
\rightarrow	<3.1 V dc	2.45 V dc
	Short Circuit Current	
Ω	<250 μ A	
\rightarrow	<600 μ A	

* 10^7 V-Hz max.

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
Series III Multimeter

Instruction Sheet




⚠ Read First: Safety Information

- Never use the meter if the meter or test leads look damaged.
- Be sure the test leads and switch are in the correct position for the desired measurement.
- Never measure resistance in a circuit when power is applied.
- Never touch the probe to a voltage source when the test leads are plugged into the 10 A or 40 mA input jack.
- Never apply more than rated voltage between any input jack and earth ground.
- Be careful when working with voltages above 60 V dc or 30 V ac rms. Such voltages pose a shock hazard.
- Keep your fingers behind the finger guards on the test probes when making measurements.

⚠ Warning

To avoid false readings, which could lead to possible electric shock or personal injury, replace the battery as soon as the battery indicator  appears.

Symbols

-  Read First: Safety Information
-  Dangerous Voltage May Be Present
-  Double Insulation

Overvoltage Installation Category per IEC 1010:

- CAT II Typical locations include main wall outlets, local appliances, and portable equipment.
- CAT III Typical locations include switches in the fixed installation and equipment for industrial use permanently connected to the fixed installation.

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