

# CLAMP METERS & INSULATION TESTERS

## TRUE RMS AC/DC CLAMP METER

- Measures AC/DC current, AC/DC voltage, resistance, capacitance, frequency, duty cycle, and temperature with a type K thermocouple probe
- True RMS AC measurements
- Non-contact AC voltage detector in clamp tip
- Low battery indication and auto power-off
- 50 000 count LCD with backlight
- Conforms to EN61010 Cat. III 600 V
- Jaw opening: 1.2" (30 mm)
- Includes set of test leads, temperature probe, batteries, and soft carrying case



### SPECIFICATIONS:

<b>AC/DC Current Range:</b>	50.00, 500.0 A
<b>Accuracy:</b>	AC: $\pm(2.8\% \text{ rdg.} + 30 \text{ dgt.})$ ; DC: $\pm(2.5\% \text{ rdg.} + 30 \text{ dgt.})$
<b>AC Voltage Range:</b>	500.00 mV, 5.0000, 50.000, 500.00, 750.0 V
<b>Accuracy:</b>	$\pm(1.0\% \text{ rdg.} + 30 \text{ dgt.})$
<b>DC Voltage Range:</b>	500.00 mV, 5.0000, 50.000, 500.00, 1000.0 V
<b>Accuracy:</b>	$\pm(0.1\% \text{ rdg.} + 4 \text{ dgt.})$
<b>Resistance Range:</b>	500.00 $\Omega$ , 5.000, 50.000, 500.00 k $\Omega$ , 5.0000, 50.000 M $\Omega$
<b>Accuracy:</b>	$\pm(1.0\% \text{ rdg.} + 4 \text{ dgt.})$
<b>Frequency Range:</b>	10.000 kHz
<b>Accuracy:</b>	$\pm(0.5\% \text{ rdg.} + 10 \text{ dgt.})$
<b>Capacitance Range:</b>	500.00, 5000.0 nF, 50.00, 500.0 $\mu$ F, 5.000 mF
<b>Accuracy:</b>	$\pm(3.5\% \text{ rdg.} + 10 \text{ dgt.})$
<b>Temperature Range:</b>	-100.0 to 1000.0°C/-148.0 to 1832.0°F



Model No.	Mfg. No.	Description	Price/Each
IB685	R5030	True RMS AC/DC Clamp Meter	
NJW167	R5030-NIST	True RMS AC/DC Clamp Meter w/ISO Certificate	
IA707	R1020	Fused Test Lead Sets	

## INSULATION TESTERS

- Measurements from 500 V to 5000 V and up to 60 G $\Omega$
- Sources up to 1.2 mA current during tests to offset capacitance load
- Dielectric absorption ratio measurements (DAR)
- Polarization index measurement (PI)
- Time set measurement function
- Auto-discharge function and voltage output warning function
- Live circuit warning symbols plus audible warning
- Live circuit detection prevents insulation test if >30 V is detected
- Max/Min, Peak, Relative value and Data Hold functions
- 6000-count digital display with bargraph and backlight
- Meets IEC61010-1 Cat. IV 600 V safety standards
- Includes test leads, batteries and carrying case
- Accredited calibration available



### SPECIFICATIONS:

<b>Insulation Resistance Test Voltages:</b>	500 V, 1000 V, 2500 V, 5000 V DC
<b>Insulation Resistance Range:</b>	0 to 60.0 G $\Omega$
<b>Resistance Test Range:</b>	0.1 to 6000 $\Omega$
<b>Voltage Range:</b>	0.5 to 600.0 V AC/DC

Model No.	Mfg. No.	Description	Price/Each
IA855	R5002	Insulation Tester	
NJW156	R5002-NIST	Insulation Tester w/ISO Certificate	

## AC/DC CLAMP METER

- Measures AC current, AC and DC voltage, resistance, capacitance, as well as temperature with the included Type K thermocouple probe
- Diode test and continuity check
- 4000-count LCD displays low battery and overrange indications
- UL approved
- Cat. III 600V safety rating
- Includes one set of test leads, one temperature probe, batteries, and a soft carrying case



### SPECIFICATIONS:

<b>AC Current Range:</b>	40.00, 400.0 A
<b>Accuracy:</b>	$\pm(2.5\% \text{ rdg.} + 8 \text{ dgt.})$
<b>DC Voltage Range:</b>	400.0 mV, 4.000, 40.00, 400.0, 600.0 V
<b>Accuracy:</b>	$\pm(1.5\% \text{ rdg.} + 2 \text{ dgt.})$
<b>AC Voltage Range:</b>	4.000, 40.00, 400.0, 600.0 V
<b>Accuracy:</b>	$\pm(1.8\% \text{ rdg.} + 8 \text{ dgt.})$
<b>Resistance Range:</b>	400.0 $\Omega$ , 4.000, 40.00, 400.0 k $\Omega$ , 4.000, 40.00 M $\Omega$
<b>Accuracy:</b>	$\pm(1.5\% \text{ rdg.} + 2 \text{ dgt.})$
<b>Capacitance Range:</b>	40.00, 400.0 nF, 4.000, 40.00, 100.0 $\mu$ F
<b>Accuracy:</b>	$\pm(3\% \text{ rdg.} + 5 \text{ dgt.})$
<b>Temperature Range:</b>	-20.0 to 760.0°C (-4.0 to 1400.0°F)
<b>Accuracy:</b>	$\pm(3\% \text{ rdg.} + 5^\circ\text{C}/9^\circ\text{F})$
<b>Jaw Opening:</b>	1.2" (30 mm) maximum
<b>Power Supply:</b>	2 x 1.5V "AAA" batteries
<b>Dimensions:</b>	200 x 66 x 37 mm
<b>Weight:</b>	205 g



Model No.	Mfg. No.	Description	Price/Each
IA982	R5020	AC/DC Clamp Meter	
NJW166	R5020-NIST	AC/DC Clamp Meter w/ISO Certificate	
IA707	R1020	Fused Test Lead Sets	

## INSULATION TESTERS

- Test voltage combinations: 250 V, 500 V or 1000 V
- 1 mA test current for M $\Omega$  range at rated voltage
- 200 mA test current for continuity range
- Continuity test with beeper
- Large, easy-to-read dual display with backlight
- Data hold switch
- Test button may be locked on for hands-free operation
- Double moulded plastic housing
- Supplied with test leads, batteries and plastic carrying case
- Meets IEC61010-1 Cat. III 1000 V

### SPECIFICATIONS:

<b>Insulation resistance tests</b>	
<b>Test Voltage:</b>	250 V, 500 V, 1000 V
<b>Measurement Range:</b>	200 M $\Omega$ , 2000 M $\Omega$
<b>Accuracy:</b>	$\pm 3.5\% \text{ rdg.} \pm 5 \text{ dgt.}$
<b>Resistance tests</b>	
<b>Measurement Range:</b>	200 $\Omega$ , 2000 $\Omega$
<b>Accuracy:</b>	$\pm 1\% \text{ rdg.} \pm 2 \text{ dgt.}$
<b>Voltage tests</b>	
<b>Measurement Range:</b>	750 VAC; 1000 VDC
<b>Accuracy:</b>	AC: $\pm 1.2\% \text{ rdg.} \pm 10 \text{ dgt.}$ DC: $\pm 0.8\% \text{ rdg.} \pm 3 \text{ dgt.}$
<b>Continuity tests</b>	
<b>Measurement Range:</b>	Beeps $\leq 40 \Omega$
<b>Test Current:</b>	$\leq 200 \text{ mA}$
<b>General</b>	
<b>Power Supply:</b>	6 x 1.5 V AA batteries
<b>Dimensions:</b>	200 x 92 x 50 mm
<b>Weight:</b>	700 g



Model No.	Mfg. No.	Description	Price/Each
IA194	R5600	Insulation Tester	
NJW171	R5600-NIST	Insulation Tester w/ISO Certificate	

