



INSTRUCTION MANUAL

MT1881^{IV}

PROFESSIONAL DIGITAL MULTIMETER



Contents

Page no

1. Introduction	4
2. Safety Symbols	4
3. Safety Instructions	5
4. Controls and Jacks	6
5. Symbols and Annunciators	7
6. Operating Instructions	7
6.1. DC Voltage Measurements	8
6.2. AC Voltage (Frequency, Duty Cycle) Measurement	8
6.3. DC Current Measurement.....	9
6.4. AC Current (Frequency, Duty Cycle) Measurement	9
6.5. Resistance Measurements	10
6.6. Continuity Check	10
6.7. Diode Test	11
6.8. Capacitance Measurements	11
6.9. Frequency Measurement	11
6.10. Mode Button	12
6.11. Data Hold Button	12
6.12. Range Button	12
6.13. Min/Max Button	12
6.14. Low Battery Indication	12
7. Maintenance	13
7.1. Battery Installation	13
8. Specifications	14
8.1. DC Voltage	14
8.2. AC Voltage (Auto-ranging)	14
8.3. AC Voltage (VFD)	14
8.4. DC Current (Auto-ranging)	15
8.5. AC Current (Auto-ranging)	15
8.6. Resistance (Auto-ranging)	15
8.7. Capacitance (Auto-ranging).....	16
8.8. Frequency (Electronic) (Auto-ranging)	16
8.9. Frequency (Electrical)	16
8.10. Duty Cycle	17
8.11. Diode Test	17
8.12. Audible Continuity.....	17
8.13. Non-Contact Voltage (NCV).....	18

1. INTRODUCTION

This meter measures AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency (electrical & electronic), Duty Cycle, Diode Test, and Continuity. Proper use and care of this meter will provide many years of reliable service.

2. SAFETY SYMBOLS



This symbol adjacent to another symbol, terminal or operating device indicates that the operator must refer to an explanation in the Operating Instructions to avoid personal injury or damage to the meter.



This WARNING symbol indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.



This CAUTION symbol indicates a potentially hazardous situation, which if not avoided, may result damage to the product.



This symbol advises the user that the terminal(s) so marked must not be connected to a circuit point at which the voltage with respect to earth ground exceeds (in this case) 1000 VAC or VDC.



This symbol adjacent to one or more terminals identifies them as being associated with ranges that may, in normal use, be subjected to particularly hazardous voltages. For maximum safety, the meter and its test leads should not be handled when these terminals are energized.



This symbol indicates that a device is protected throughout by double insulation or reinforced insulation.

PER IEC1010 OVERVOLTAGE INSTALLATION CATEGORY I

Equipment of OVERVOLTAGE CATEGORY I is equipment for connection to circuits in which measures are taken to limit the transient overvoltages to an appropriate low level.

Note – Examples include protected electronic circuits.

OVERVOLTAGE CATEGORY II

Equipment of OVERVOLTAGE CATEGORY II is energy-consuming equipment to be supplied from the fixed installation.

Note – Examples include household, office, and laboratory appliances.

OVERVOLTAGE CATEGORY III

Equipment of OVERVOLTAGE CATEGORY III is equipment in fixed installations.

Note – Examples include switches in the fixed installation and some equipment for industrial use with permanent connection to the fixed installation.

OVERVOLTAGE CATEGORY IV

Equipment of OVERVOLTAGE CATEGORY IV is for use at the origin of the installation.

Note – Examples include electricity meters and primary over-current protection equipment

3. SAFETY INSTRUCTIONS

This meter measures AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency (electrical & electronic), Duty Cycle, Diode Test, and Continuity. Proper use and care of this meter will provide many years of reliable service. This meter has been designed for safe use, but must be operated with caution. The rules listed below must be carefully followed for safe operation.


1. **NEVER** apply voltage or current to the meter that exceeds the specified maximum:

Input Protection Limits	
Function	Maximum Input
V DC or V AC	1000VDC/AC RMS
mA AC/DC	800mA 1000V fast acting fuse
A AC/DC	10A 1000V fast acting fuse (10A for 30 seconds max every 15 minutes)
Frequency, Resistance, Capacitance, Duty Cycle, Diode Test, Continuity	250VDC/AC RMS

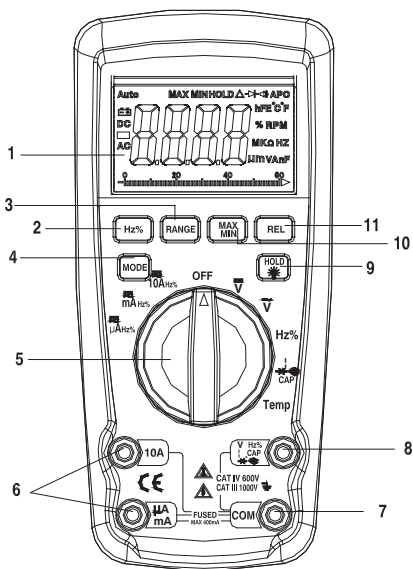
2. **USE EXTREME CAUTION** when working with high voltages.
3. **DO NOT** measure voltage if the voltage on the "COM" input jack exceeds 1000V above earth.
4. **NEVER** connect the meter leads across a voltage source while the function switch is in the current, resistance, or diode mode. Doing so can damage the meter.
5. **ALWAYS** discharge filter capacitors in power supplies and disconnect the power when making resistance or diode tests.
6. **ALWAYS** turn off the power and disconnect the test leads before opening the covers to replace the fuse or batteries.
7. **NEVER** operate the meter unless the back cover and the battery and fuse covers are in place and fastened securely.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

4. CONTROLS AND JACKS

- | | |
|-------------------------------------|---|
| 1 - 6,000 count LCD display | 7 - COM input jack |
| 2 - Hz% button | 8 - Positive input jack |
| 3 - RANGE button | 9 -  Backlight and Hold button |
| 4 - MODE button | 10 - MAX/MIN button |
| 5 - Function switch | 11 - REL button |
| 6 - mA, μ A and 10A input jacks | |

Note: Tilt stand and battery compartment are on rear of unit.



5. SYMBOLS AND ANNUNCIATORS



•)))	Continuity	REL	Relative
▶	Diode test	AC	Alternating current
🔋	Battery status	DC	Direct current
n	nano (10 ⁻⁹) (capacitance)	MAX	Maximum
μ	micro (10 ⁻⁶) (amps, cap)	AUTO	Auto Range Timing symbol Backlight Bargraph
m	milli (10 ⁻³) (volts, amps)	V	Volts
A	Amps	VFD	Frequency Conversion Measure
k	kilo (10 ³) (ohms)	AUTO	Auto ranging
F	Farads (capacitance)	HOLD	Display hold
M	mega (10 ⁶) (ohms)	MIN	Minimum
Ω	Ohms		
Hz	Hz Hertz (frequency)		

6. OPERATING INSTRUCTIONS



WARNING: Risk of electrocution. High-voltage circuits, both AC and DC, are very dangerous and should be measured with great care.

1. ALWAYS turn the function switch to the **OFF** position when the meter is not in use.
2. If "OL" appears in the display during a measurement, the value exceeds the range you have selected. Change to a higher range.

6.1. DC VOLTAGE MEASUREMENTS

CAUTION: Do not measure DC voltages if a motor on the circuit is being switched ON or OFF. Large voltage surges may occur that can damage the meter.

1. Set the function switch to the "**DC**" position.
2. Insert the black test lead banana plug into the negative **COM** jack. Insert the red test lead banana plug into the positive **V** jack.
3. Touch the black test probe tip to the negative side of the circuit. Touch the red test probe tip to the positive side of the circuit.
4. Read the voltage in the display.



6.2. AC VOLTAGE (FREQUENCY, DUTY CYCLE) MEASUREMENT

CAUTION: Do not measure AC voltages if a motor on the circuit is being switched ON or OFF. Large voltage surges may occur that can damage the meter.

WARNING: Risk of Electrocution. The probe tips may not be long enough to contact the live parts inside some 240V outlets for appliances because the contacts are recessed deep in the outlets. As a result, the reading may show 0 volts when the outlet actually has voltage on it. Make sure the probe tips are touching the metal contacts inside the outlet before assuming that no voltage is present.

1. Set the function switch to the **VAC/Hz/%/VFD** position, indicate "**AC**" on the display.
2. Insert the black test lead banana plug into the **COM** input jack; insert the red test lead banana plug into the **Positive** input jack.
3. Position the black test probe tip and red test probe tip respectively in the spots of the circuit to be measured
4. Read the voltage on the display.
5. Press and hold the **MODE** Button key for 2 seconds to indicate "VFD" on the display.
6. Read the VFD value on the display.
7. To exit VFD mode press and hold the MODE Button for 2 seconds.
8. Press the **Hz/%** Button to indicate "**Hz**".
9. Read the frequency in the display.
10. Press the **Hz/%** Button again to indicate "%".
11. Read the % of duty cycle in the display.

6.3. DC CURRENT MEASUREMENT

CAUTION: Do not make 10A current measurements for longer than 30 seconds. Exceeding 30 seconds may cause damage to the meter and/or the test leads.

1. Insert the black test lead banana plug into the **COM** input jack.
2. For current measurements up to **6000 μ A DC**, set the function switch to the **μ A AC/DC** Position and insert the red test lead banana plug into the **μ A/mA** input jack.
3. For current measurements up to **600mA DC**, set the function switch to the **mA AC/DC** position and insert the red test lead banana plug into the **μ A/mA** input jack.
4. For current measurements up to **10A DC**, set the function switch to the **10A AC/DC** position and insert the red test lead banana plug into the **10A** input jack.
5. Press the **MODE** Button to indicate "**DC**" on the display.
6. Remove power from the circuit under test, then open up the circuit at the point where you wish to measure current.
7. Connect the black test probe tip and the red test probe tip in series to the circuits current you want to measure
8. Apply power to the circuit.
9. Read the current on the display.

6.4. AC CURRENT (FREQUENCY, DUTY CYCLE) MEASUREMENT

CAUTION: Do not make 10A current measurements for longer than 30 seconds. Exceeding 30 seconds may cause damage to the meter and/or the test leads.

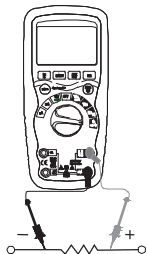
1. Insert the black test lead banana plug into the negative **COM** input jack.
2. For current measurements up to **6000 μ A AC**, set the function switch to the **μ A AC/DC** position and insert the red test lead banana plug into the **μ A/mA** input jack.
3. For current measurements up to **600mA AC**, set the function switch to the **mA AC/DC** position and insert the red test lead banana plug into the **μ A/mA** input jack.
4. For current measurements up to **10A AC**, set the function switch to the **10A AC/DC** position and insert the red test lead banana plug into the **10A** input jack.
5. Press the **MODE** Button to indicate "**AC**" on the display.
6. Remove power from the circuit under test, then open up the circuit at the point where you wish to measure current.

7. Connect the black test probe tip and the red test probe tip in series to the circuit whose current you want to measure.
8. Apply power to the circuit, read the current on the display.
9. Press the **Hz/%** Button to indicate "**Hz**", read the frequency on the display.
10. Press the **Hz/%** Button again to indicate "%", read the % duty cycle on the display.
11. Press the **Hz/%** Button to return to current measurement.

6.5. RESISTANCE MEASUREMENTS

WARNING: To avoid electric shock, disconnect power to the unit under test and discharge all capacitors before taking any resistance measurements. Remove the batteries and unplug the line cords.

1. Set the function switch to the Ω CAP $\rightarrow \bullet \cdot \cdot \cdot \cdot$ position.
2. Insert the black test lead banana plug into the negative **COM** jack. Insert the red test lead banana plug into the positive Ω jack.
3. Press the **MODE** button to indicate " Ω " on the display.
4. Touch the test probe tips across the circuit or part under test. It is best to disconnect one side of the part under test so the rest of the circuit will not interfere with the resistance reading.
5. Read the resistance on the display.



6.6. CONTINUITY CHECK

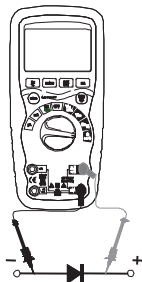
WARNING: To avoid electric shock, never measure continuity on circuits or wires that have voltage on them.

1. Set the function switch to the Ω CAP $\rightarrow \bullet \cdot \cdot \cdot \cdot$ position.
2. Insert the black lead banana plug into the negative **COM** jack. Insert the red test lead banana plug into the positive Ω jack.
3. Press the **MODE** button to indicate " $\bullet \cdot \cdot \cdot \cdot$ " and " Ω " on the display.
4. Touch the test probe tips to the circuit or wire you wish to check.
5. If the resistance is less than approximately 30 Ω , the audible signal will sound. If the circuit is open, the display will indicate "**OL**".



6.7. DIODE TEST

1. Set the function switch to the Ω CAP $\rightarrow \bullet \parallel \rightarrow$ position.
2. Insert the black test lead banana plug into the negative **COM** jack and the red test lead banana plug into the positive V jack.
3. Press the **MODE** button to indicate " $\rightarrow \bullet \parallel \rightarrow$ " and "**V**" on the display.
4. Touch the test probes to the diode under test. Forward voltage will typically indicate 0.400 to 0.700V. Reverse voltage will indicate "**OL**". Shorted devices will indicate near 0V and an Open device will indicate "**OL**" in both polarities.



6.8. CAPACITANCE MEASUREMENTS

WARNING: To avoid electric shock, disconnect power to the unit under test and discharge all capacitors before taking any capacitance measurements. Remove the batteries and unplug the line cords.

1. Set the rotary function switch to the Ω CAP $\rightarrow \bullet \parallel \rightarrow$ position.
2. Insert the black test lead banana plug into the negative **COM** jack.
3. Insert the red test lead banana plug into the positive **V** jack.
4. Touch the test leads to the capacitor to be tested. Read the capacitance value on the display



6.9. FREQUENCY MEASUREMENT

1. Set the function switch to the Hz/Duty position.
2. Insert the black test lead banana plug into the negative jack (COM) and the red test lead banana plug into the positive jack (F).
3. Touch the test probe tips to the circuit under test.
4. Read the frequency on the display. The digital reading will indicate the proper decimal point, symbols (Hz, kHz, MHz) and value.

NOTE: Press the mode key to select the frequency or the duty cycle measuring.

6.10. MODE BUTTON

1. To select DC/AC current or voltage or resistance/capacitance Diode/Continuity or °C /°F or Hz/duty
2. Press the key then turn on the power, the Auto Power-off function will be cancelled, the sign "APO" disappears in the LCD; and enters into the sleep status (power-off), press the key then power on will have Auto Power-off function.

6.11. DATA HOLD BUTTON

The Data Hold function allows the meter to "freeze" a measurement for later reference.

1. Press the DATA HOLD button to "freeze" the reading on the indicator. The indicator "HOLD" will be appear in the display.
2. Press the DATA HOLD button to return to normal operation.
3. Press the DATA HOLD button to last 2 second, the blue back light function is enabled or disenabled.

6.12. RANGE BUTTON


When the meter is first turned on, it automatically goes into Auto Ranging. This automatically selects the best range for the measurements being made and is generally the best mode for most measurements. For measurement situations requiring that a range be manually selected, perform the following:

1. Press the RANGE button. The "AUTO" display indicator will turn off.
2. Press the RANGE button to step through the available ranges until you select the range you want.
3. Press and hold the RANGE button for 2 seconds to Exit the Manual Ranging mode and return to Auto Ranging.

6.13. MIN/MAX BUTTON

The meter displays the maximum or minimum value of input in the Max/Min mode. When Max/Min is pressed for the first time, the meter displays the maximum value. The meter displays the minimum value when it is pressed again. When Max/Min is pressed for the third time, the meter displays current value. The meter returns to normal operation when Max/Min is pressed and held for longer than one second. Press HOLD key in Max/Min mode makes the meter stop updating the maximum or the minimum value.

6.14. LOW BATTERY INDICATION

When the  icon appears alone in the display, the battery should be replaced.

7. MAINTENANCE

⚠ WARNING: To avoid electric shock, disconnect the test leads from any source of voltage before removing the back cover or the battery or fuse covers.

⚠ WARNING: To avoid electric shock, do not operate your meter until the battery and fuse covers are in place and fastened securely.

This MultiMeter is designed to provide years of dependable service, if the following care instructions are performed:

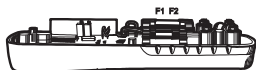
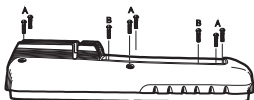
1. **KEEP THE METER DRY.** If it gets wet, wipe it off.
2. **USE AND STORE THE METER IN NORMAL TEMPERATURES.** Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.
3. **HANDLE THE METER GENTLY AND CAREFULLY.** Dropping it can damage the electronic parts or the case.
4. **KEEP THE METER CLEAN.** Wipe the case occasionally with a damp cloth. DO NOT use chemicals, cleaning solvents, or detergents.
5. **USE ONLY FRESH BATTERIES OF THE RECOMMENDED SIZE AND TYPE.** Remove old or weak batteries so they do not leak and damage the unit.
6. **IF THE METER IS TO BE STORED FOR A LONG PERIOD OF TIME,** the batteries should be removed to prevent damage to the unit.

7.1. BATTERY INSTALLATION

⚠ WARNING: To avoid electric shock, disconnect the test leads from any source of voltage before removing the battery cover.

1. Turn power off and disconnect the test leads from the meter.
2. Open the rear battery cover by removing two screws (B) using a Phillips head screwdriver.
3. Insert the battery into battery holder, observing the correct polarity.
4. Put the battery cover back in place. Secure with the screws.

⚠ WARNING: To avoid electric shock, do not operate the meter until the battery cover is in place and fastened securely.



NOTE: If your meter does not work properly, check the fuses and batteries to make sure that they are still good and that they are properly inserted.

8. SPECIFICATIONS

8.1. DC VOLTAGE

Range	Resolution	Accuracy
600.0mV	0.1mV	$\pm 0.5\%$ of reading ± 5 digits
6.000V	0.001V	
60.00V	0.01V	
600.0V	0.1V	
1000V	1V	$\pm 0.6\%$ of reading ± 6 digits

Input Impedance: $\pm 10\text{M}\Omega$.

Maximum Input: 1000V DC or 1000V AC RMS.

8.2. AC VOLTAGE (AUTO-RANGING)

Range	Resolution	Accuracy
6.000V	0.001V	$\pm 0.8\%$ of reading ± 4 digits
60.00V	0.01V	
600.0V	0.1V	
1000V	1V	$\pm 0.8\%$ of reading ± 8 digits

All AC voltage ranges are specified from 5% of range to 100% of range

Input Impedance: $\pm 10\text{M}\Omega$.

AC Response: 50 Hz to 400Hz

Maximum Input: 1000V DC or 1000V AC RMS.

8.3. AC VOLTAGE (VFD)

Range	Resolution	Accuracy
50.0V to 600.0V	0.1V	$\pm 4.0\%$ of reading ± 9 digits

Input Impedance: $\pm 10\text{M}\Omega$.

AC Response: 50 Hz to 400Hz

Maximum Input: 600V DC or 600V AC RMS.

8.4. DC CURRENT (AUTO-RANGING)

Range	Resolution	Accuracy
600.0uA	0.1uA	$\pm 1.0\%$ of reading ± 3 digits
6000uA	1uA	
60.00mA	0.01mA	
600.0mA	0.1mA	
6.000A	0.001A	
10A	0.01A	$\pm 1.5\%$ of reading ± 3 digits

Overload Protection: FF800mA / 1000V and F10A / 1000V Fuse.

Maximum Input: 6000uA DC on uA range

800mA DC on mA range

10A DC on 10A range.

8.5. AC CURRENT (AUTO-RANGING)

Range	Resolution	Accuracy
600.0uA	0.1uA	$\pm 1.5\%$ of reading ± 3 digits
6000uA	1uA	
60.00mA	0.01mA	
600.0mA	0.1mA	
6.000A	0.001A	
10A	0.01A	$\pm 2.0\%$ of reading ± 3 digits

All AC Current ranges are specified from 5% of range to 100% of range

Overload Protection: FF800mA/1000V and F10A/1000V Fuse.

AC Response: 50 Hz to 400 Hz

Maximum Input: 6000uA AC RMS on uA

800mA AC RMS on mA

10A AC RMS on 10A range

8.6. RESISTANCE [Ω] (AUTO-RANGING)

Range	Resolution	Accuracy
600.0 Ω	0.1 Ω	$\pm 1.0\%$ of reading ± 2 digits
6.000k Ω	0.001k Ω	$\pm 0.8\%$ of reading ± 2 digits
60.00k Ω	0.01k Ω	
600.0k Ω	0.1k Ω	
6.000M Ω	0.001M Ω	$\pm 1.2\%$ of reading ± 8 digits
60.00M Ω	0.01M Ω	

Input Protection: 250V DC or 250V AC RMS.

8.7. CAPACITANCE (AUTO-RANGING)

Range	Resolution	Accuracy
60.00nF	0.01nF	±5.0% of reading ± 20 digits
600.0nF	0.1nF	±4.0% of reading ± 5 digits
6.000uF	0.001uF	
60.00uF	0.01uF	
600.0uF	0.1uF	
6.000mF	0.001mF	±10% of reading
60.00mF	0.01mF	

Input Protection: 250V DC or 250V AC RMS.

8.8. FREQUENCY (ELECTRONIC) (AUTO-RANGING)

Range	Resolution	Accuracy
9.999Hz	0.001Hz	±(1.0% reading ± 4 digits)
99.99 Hz	0.01Hz	
999.9 Hz	0.1Hz	
9.999KHz	1 Hz	
99.99kHz	10Hz	
999.9kHz	100Hz	
9.999MHz	1kHz	
10.00MHz	0.01MHz	

Sensitivity: >0.5V RMS while ≤1MHz ;

Sensitivity: >3V RMS while >1MHz;

Input Protection: 250V DC or 250V AC RMS.

8.9. FREQUENCY (ELECTRICAL)

Range	Resolution	Accuracy
10.00~1KHz	0.01Hz	±(1.5% reading)

Sensitivity: ACmV Range (≥100mV),ACV

Range (≥6% Range), 6000μA/600.0mA/10.00A

Range (≥6% Range), 600.0μA/60.00mA/6.000A (≥60% Range)

8.10. DUTY CYCLE

Range	Resolution	Accuracy
0.1%~99.9%	0.1%	$\pm 1.2\%$ of reading ± 2 digits

Pulse width: $>100\mu\text{s}$, $<100\text{ms}$;

Frequency width: 5Hz – 150 kHz

Sensitivity: $<0.5\text{V RMS}$

Overload protection: 250V DC or 250V AC RMS.

8.11. DIODE TEST

Range	Resolution	Accuracy
0.3mA typical	1 mV	$\pm 10\%$ of reading ± 5 digits

Open circuit voltage: MAX. 3.2V DC

Overload protection: 250V DC or 250V AC RMS.

Note: Accuracy specifications consist of two elements:

- (% reading)- This is the accuracy of the measurement circuit.
- (+ digits)- This is the accuracy of the analog to digital converter.

Note: Accuracy is stated at 18 to 28°C (65 to 83°F) and less than 75%RH.


8.12. AUDIBLE CONTINUITY

Function	Range
Enclosure	Double molded, waterproof
Shock (Drop Test)	6.5 feet (2 meters)
Diode Test	Test current of 0.9mA maximum, open circuit voltage 3.2V DC typical
Continuity Check	Audible signal will sound if the resistance is less than 50Ω (approx.), test current $<1\text{mA}$
AC Response	True RMS
ACV Bandwidth	50Hz to 400Hz
Crest Factor	≤ 3 at full scale up to 500V, decreasing linearly to ≤ 1.5 at 1000V
Display	6000 count backlit liquid crystal with bargraph
Overrange indication	"OL" is displayed

Audible threshold: Less than 50Ω Test current MAX. 1mA

Overload protection: 250V DC or 250V AC RMS.

8.13. NON-CONTACT VOLTAGE (NCV)

Function	Range
Auto Power Off	15 minutes (approximately) with disable feature
Polarity	Automatic (no indication for positive); Minus (-) sign for negative
Measurement Rate	3 times per second, nominal
Low Battery Indication	"  " is displayed if battery voltage drops below operating voltage
Battery	One 9 volt (NEDA 1604) battery
Fuses	mA, μ A ranges; 0.8A/1000V ceramic fast blow A range; 10A/1000V ceramic fast blow
Operating Temperature	41°F to 104°F (5°C to 40°C)
Storage Temperature	-40°F to 140°F (-20°C to 60°C)
Operating Humidity	Max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F (40°C)
Storage Humidity	<80%
Operating Altitude	7000ft. (2000meters) maximum.
Weight	0.753lb (342g) (includes holster).
Size	7.36" x 3.2" x 2.0" (187 x 81 x 50mm) (includes holster)
Safety	This meter is intended for origin of installation use and protected, against the users, by double insulation per EN61010-1 and IEC61010-1 2nd Edition (2001) to Category IV 600V and Category III 1000V; Pollution Degree 2. The meter also meets UL 61010-1, 2nd Edition (2004), CAN/CSA C22.2 No. 61010-1 2nd Edition (2004), and UL 61010B-2-031, 1st Edition (2003)

The NCV function works on any rotary switch position.

1. Test the detector on a known live circuit before use.
2. Hold the top of the meter very close to the voltage source as shown.
3. If voltage is present, the back light will flash a bright red.



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