

MT1887 1500V DC MULTIMETER





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1. INTRODUCTION

This meter measures AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency (electrical & electronic), Duty Cycle, Diode Test, and Continuity plus Thermocouple Temperature. It features a waterproof, rugged design for heavy duty use. 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.

WARNING

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 in 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)





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

OVERVOLTAGE 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 has been designed for safe use, but must be operated with caution. The rules listed below must be carefully followed for safe operation.

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

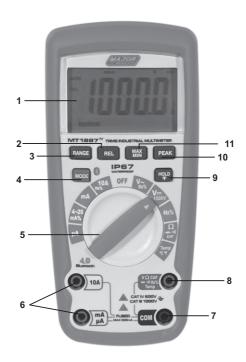
Input Protect	ion Limits		
Function	Maximum Input		
V DC or V AC	1500VDC/1000V AC RMS		
mA AC/DC	500mA 1000V fast acting fuse		
A AC/DC	10A 1000V fast acting fuse (10A for 30 seconds		
	max every 15 minutes)		
Frequency, Resistance,			
Capacitance, Duty Cycle,	1000VDC/AC RMS		
Diode Test, Continuity			
Temperature	1000VDC/AC RMS		
Surge Protection	8kV peak per IEC 61010		

- 2. **USE EXTREME CAUTION** when working with high voltages.
- 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.
- ALWAYS discharge filter capacitors in power supplies and disconnect the power when making resistance or diode tests.
- 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.

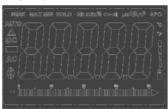
4. CONTROLS AND JACKS

- 1 40,000 count LCD display
- 2 REL button
- 3 RANGE button
- 4 MODE/Bluetooth button
- 5 Function switch
- 6 mA, µA and 10A input jacks
- 7 COM input jack
- 8 Positive input jack
- 9 HOLD and * (Backlight) button
- 10 PEAK button
- 11 MAX/MIN button

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

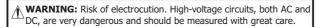


5. SYMBOLS USED ON LCD



V	Volts	μ	micro (10 ⁻⁶)
Α	Amperes	m	milli (10 ⁻³)
~	Alternating current	k	kilo (10 ⁻³)
==	Direct current	M	mega (10 ⁻⁶)
_	Minus sign	OL	Overload
Ω	Ohms	(4)	Auto Power Off
•)))	Continuity	+ 1	Low battery
	Diode test	AUTO	Autoranging
F	Farads (capacitance)	HOLD	Display hold
Hz	Hertz (frequency)	MAX/MIN/AVG	Maximum/Minimum/Average
%	Percent (duty ratio)	Peak	Peak hold
٥С	Degrees Centigrade	REL	Relative
٥F	Degrees Fahrenheit	8	Bluetooth®
n	nano (10 ⁻⁹)		

6. OPERATING INSTRUCTIONS



- 1. ALWAYS turn the function switch to the $\mbox{\bf OFF}$ 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 "VDC" position.
- Insert the black test lead banana plug into the negative COM jack. Insert the red test lead banana plug into the positive V jack.
- 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 on the display.

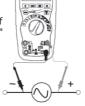


6.2. AC VOLTAGE (FREQUENCY, DUTY CYCLE) MEASUREMENTS

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.

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.

- Set the function switch to the green VAC/Hz/% position.
- Insert the black test lead banana plug into the negative COM jack. Insert red test lead banana plug into the positive V jack.
- Touch the black test probe tip to the neutral side of the circuit. Touch the red test probe tip to the "live" side of the circuit.
- 4. Read the voltage on the display.
- 5. Press the MODE button to indicate "Hz".
- 6. Read the frequency in the display.
- 7. Press the MODE button again to indicate "%".
- 8. Read the % of duty cycle on the display.



6.3. DC CURRENT MEASUREMENTS

CAUTION: Do not make 20A current measurements for longer than 30 seconds. Exceeding 30 seconds may cause damage to the meter and/or the test leads.

- Insert the black test lead banana plug into the negative COM jack.
- For current measurements up to 4000µA DC, set the function switch to the yellow µA position and insert the red test lead banana plug into the µA/mA jack.
- For current measurements up to 400mA DC, set the function switch to the yellow mA position and insert the red test lead banana plug into the μA/mA jack.
- For current measurements up to 10A DC, set the function switch to the yellow 10A/HZ/% position and insert the red test lead banana plug into the 10A jack.
- Press the MODE button to indicate "DC" on the display.
- Remove power from the circuit under test, then open up the circuit at the point where you wish to measure current.
- 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.
- 8. Apply power to the circuit.
- 9. Read the current on the display.



6.4. AC CURRENT (FREQUENCY, DUTY CYCLE) MEASUREMENTS

CAUTION: Do not make 20A 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** jack.
- For current measurements up to 4000μA AC, set the function switch to the yellow μA position and insert the red test lead banana plug into the μA/mA jack.
- For current measurements up to 400mA AC, set the function switch to the yellow mA position and insert the red test lead banana plug into the µA/mA jack.
- For current measurements up to 10A AC, set the function switch to the yellow 10A/HZ/% position and insert the red test lead banana plug into the 10A iack.
- 5. Press the **MODE** button to indicate "**AC**" on the display.
- Remove power from the circuit under test, then open up the circuit at the point where you wish to measure current.
- 7. side of the circuit. Touch the red test probe tip to the "live" side of the circuit.
- 8. Apply power to the circuit.
- 9. Read the current on the display.
- Press and hold the **MODE** button to indicate "**Hz**".
- 11. Read the frequency on the display.
- 12. Momentarily press the **MODE** button again to indicate "%".
- 13. Read the % duty cycle on the display.
- 14. Press and hold the **MODE** 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 •)) position.
- Insert the black test lead banana plug into the negative COM jack. Insert the red test lead banana plug into the positive W jack.
- Press the MODE button to indicate "W" 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 \clubsuit •)) position.
- Insert the black lead banana plug into the negative COM jack. Insert the red test lead banana plug into the positive W jack.
- 3. Press the \mbox{MODE} button to indicate "*))" and " $\mbox{\bf \Omega}$ " on the display
- 4. Touch the test probe tips to the circuit or wire you wish to check.
- If the resistance is less than approximately 35Ω, 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 •)) position.
- Insert the black test lead banana plug into the negative COM jack and the red test lead banana plug into the positive V jack.
- Press the MODE button to indicate "→" 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.

- Set the rotary function switch to the Ω CAP → •))
 position.
- 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. Press the MODE button to indicate "F"
- 4. Touch the test leads to the capacitor to be tested.
- 5. Read the capacitance value on the display

6.9. TEMPERATURE MEASUREMENTS

- 1. Set the function switch to the **Temp** position
- Insert the Temperature Probe into the input jacks, making sure to observe the correct polarity.
- 3. Press the MODE button to indicate "oC" or "oF"
- 4. Touch the Temperature Probe head to the part whose temperature you wish to measure. Keep the probe touching the part under test until the reading stabilizes (about 30 seconds).
- 5. Read the temperature on the display.

Note: The temperature probe is fitted with a type K mini connector. A mini connector to banana connector adaptor is supplied for connection to the input banana jacks.







6.10. FREQUENCY (DUTY CYCLE) MEASUREMENTS (ELECTRONIC)

- Set the function switch to the Hz/% position.
- Insert the black lead banana plug into the negative COM jack and the red test lead banana plug into the positive Hz jack.
- 3. Touch the test probe tips to the circuit under test.
- 4. Read the frequency on the display.
- 5. Press the MODE button to indicate "%".
- 6. Read the % duty cycle on the display.



6.11. 4 - 20mA% MEASUREMENTS

- 1. Set up and connect as described for DC mA measurements.
- 2. Set the rotary function switch to the 4-20mA% position.
- The meter will display loop current as a % with 0mA=-25%, 4mA=0%, 20mA=100%, and 24mA=125%.

6.12.NON-CONTACT AC VOLTAGE MEASUREMENTS

MARNING: Risk of Electrocution. Before use, always test the Voltage Detector on a known live circuit to verify proper operation

- Touch the probe tip to the live conductor or insert into the live side of the electrical outlet.
- 2. If AC voltage is present, the back light will flash a bright red.
- The auto off feature will turn the meter off after 15 minutes, the NCV function keeps on working when test the AC Voltage and Set the function switch to the OFF position the NCV function can not work.

NOTE: The conductors in electrical cord sets are often twisted. For best results, rub the probe tip along a length of the cord to assure placing the tip in close proximity to the live conductor.

NOTE: The detector is designed with high sensitivity. Static electricity or other sources of energy may randomly trip the sensor. This is normal operation

6.13. AUTO RANGING/MANUAL RANGE SELECTION

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** key. The "AUTO" display indicator will turn off.
- Press the RANGE key to step through the available ranges until you select the range you want.
- To exit the Manual Ranging mode and return to Auto ranging, press and hold the RANGE key for 2 seconds.

Note: Manual ranging does not apply for the Temperature functions.

6.14. MIN/MAX

- Press the MAX/MIN key to activate the MAX/MIN recording mode.
 The display icon "MAX" will appear. The meter will display and hold the maximum reading and will update only when a new "max" occurs.
- Press the MAX/MIN key again and the display icon "MIN" will appear. The meter will display and hold the minimum reading and will update only when a new "min" occurs.
- To exit MAX/MIN mode press and hold the MAX/MIN key for 2 seconds.

6.15. RELATIVE MODE

The relative measurement feature allows you to make measurements relative to a stored reference value. A reference voltage, current, etc. can be stored and measurements made in comparison to that value. The displayed value is the difference between the reference value and the measured value. Note: Relative mode does not operate in the 4-20mA function.

- 1. Perform the measurement as described in the operating instructions.
- Press the REL button to store the reading in the display and the "REL" indicator will appear on the display.
- The display will now indicate the difference between the stored value and the measured value.
- 4. Press the **REL** button to exit the relative mode.

6.16. DISPLAY BACKLIGHT

- Press the HOLD/ * key for >1 second to turn the backlight on. The backlight will flash a bright blue.
- 2. The backlight will automatically turn off after 10 seconds.

6.17. HOLD

The hold function freezes the reading in the display. Press the **HOLD** key momentarily to activate or to exit the **HOLD** function.

6.18. PEAK HOLD

The Peak Hold function captures the peak AC or DC voltage or current. The meter can capture negative or positive peaks as fast as 1 millisecond in duration. Momentarily press the **PEAK** button, "**PEAK**" and "**MAX**" will display. The meter will update the display each time a higher positive peak occurs. Press the PEAK button again, "**MIN**" will display. The meter will update the display each time a lower negative peak occurs. Press and hold the **PEAK** button for more than 1 second to exit PEAK Hold mode. Auto Power Off feature will be disabled automatically in this mode.

6.18. MODE/BLUETOOTH

Press the **MODE ®** button to select AC or DC, Frequency or Duty Cycle, Resistance, Continuity or Diode Test and °C or °F.

Bluetooth allows readings to be displayed and stored on mobile devices.

- Download the Major Tech METER-X app on iOS & Android devices.
- On the MT1887, turn the Bluetooth setting ON:

 Hold down the Mode® Button until the bluetooth® icon is displayed on the LCD display.
- On your mobile device, open the METER-X app and connect the meter to the app. You will be able to record live measurements and save them onto your app.
- On the Meter-X app, visit the help section via the settings menu for further assistance on using the app.

6.19. LOW BATTERY INDICATION

With a fresh battery installed, the battery icon with four lines above it will be displayed in the lower right corner of the LCD. The lines will disappear as the battery is used. When the icon appears alone in the display, the battery should be replaced.

6.20. AUTO POWER OFF

The auto off feature will turn the meter off after 15 minutes. To disable the auto power off feature, hold down the **MODE** button and turn the meter on. "**APO d**" will appear in the display. Turn the meter off and then on again to re-enable the auto power off feature.

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.
- 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.
- KEEP THE METER CLEAN. Wipe the case occasionally with a damp cloth. DO NOT use chemicals, cleaning solvents, or detergents.
- USE ONLY FRESH BATTERIES OF THE RECOMMENDED SIZE AND TYPE. Remove old or weak batteries so they do not leak and damage the unit.
- 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

MARNING: 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.
- 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.

MARNING: 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.

7.2. REPLACING THE FUSES

MARNING: To avoid electric shock, disconnect the test leads from any source of voltage before removing the meter cover.

- 1. Disconnect the test leads from the meter.
- 2. Remove the protective rubber holster.
- 3. Remove the battery cover (two "B" screws) and the battery.
- 4. Remove the six "A" screws securing the rear cover.
- 5. Gently remove the old fuse and install the new fuse into the holder.
- Always use a fuse of the proper size and value (0.5A/1000V fast blow for the 400mA range 10A/1000V fast blow for the 10A range.
- 7. Replace and secure the rear cover, battery and battery cover.

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

8. SPECIFICATIONS

8.1. DC VOLTAGE

Range	Resolution	Accuracy
400.0mV	0.1mV	±0.2% of reading ± 15digits
4V	0.0001V	
40V	0.001V	±0.1 of reading ± 6 digits
400V	0.01V	
1500V	1.0V	±0.1% of reading ± 6 digits

8.2. AC VOLTAGE 50 to 1000Hz

Range	Resolution	Accuracy	
4V	0.0001V		
40V	0.001V	±1.0%of reading ± 8digits	
400V	0.01V		
1000V	0.1V		

All AC voltage ranges are specified from 5% of range to 100% of range >750HZ, $\pm(1.5\%$ reading + 8 digits)

8.3. DC CURRENT

Range	Resolution	Accuracy	
400uA	0.01uA		
4000uA	0.1uA		
40mA	0.001mA	±1.0% of reading ± 3 digits	
400mA	0.01mA		
10A	0.001A		

(10A: 30 sec max with reduced accuracy)

8.4. AC CURRENT

O.T. AC CORRENT			
Range	Resolution	Accuracy	
400uA	0.1uA		
4000uA	1uA		
40mA	0.01mA	±1.5% of reading ± 8 digits	
400mA	0.1mA		
10A	0.01A		

(10A: 30 sec max with reduced accuracy). All AC voltage ranges are specified from 5% of range to 100% of range.

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

8.5. RESISTANCE

Range	Resolution	Accuracy	
400Ω	0.01Ω	±0.5% of reading ± 15 digits	
4kΩ	0.0001ΚΩ		
40kΩ	0.001ΚΩ	±0.5% of reading ± 8 digits	
400ΚΩ	0.01ΚΩ		
4ΜΩ	0.001ΜΩ	±2.0% of reading ± 10 digits	
40ΜΩ	0.01ΜΩ	- ±2.0% of reading ± 10 digit	

8.6. CAPACITANCE

Range	Resolution	Accuracy	
40nF	0.01nF	±2.5% of reading ± 40 digits	
400nF	0.1nF	122.5 % of reading 1 to digits	
4µF	0.001µF	+2 F0/ of roading + 10 digits	
40µF	0.01µF	$\pm 2.5\%$ of reading \pm 10 digits	
400µF	0.1µF		
4000µF	1µF	±(5% reading + 10 digits)	
40mF	0.01mF	Not specified	

8.7. FREQUENCY (ELECTRONIC) (AUTO-RANGING)

Range	Resolution	Accuracy	
40Hz	0.001Hz		
400Hz	0.01Hz		
4kHz	0.0001kHz		
40kHz	0.001kHz	$\pm (0.1\% \text{ reading} + 1 \text{ digits})$	
400kHz	0.01kHz		
4MHz	0.0001MHz		
40MHz	0.001MHz		
100MHz	0.01MHz	Not specified	

Sensitivity: 20V RMS min. at 20% to 80% duty cycle and <100kHz; 5V RMS min at 20% to 80% duty cycle and >100kHz.

8.8. FREQUENCY (ELECTRICAL)

Range	Resolution	Accuracy
40.00~400Hz	0.01Hz	±(0.5% reading)

Sensitivity: 15V RMS @ 20% to 80%, 5A RMS Duty Cycle: Not specified

8.9. DUTY CYCLE

Range	Resolution	Accuracy
5.0 to 95.0%	0.01%	$\pm (1.2\% \text{ reading} + 2 \text{ digits})$

Pulse frequency range: 40Hz - 10kHz, Pulse amplitude: ±5V (100µs -100ms)

8.10. TEMPERATURE - (TYPE-K)

Range	Resolution	Accuracy
-50°C to 1000°C	1 °C	±1.0% of reading + 2.5°C
-58 to 1832°F	1°F	±1.0% of reading + 4.5°F
		Meter only, probe accuracy not included

8.11. 4-20mA%

Range	Resolution	Accuracy
25 to 125%	0.01%	±50 digits

0mA=-25%, 4mA=0%, 20mA=100%, 24mA=125%

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.

8.12. GENERAL SPECIFICATIONS

Function	Range	
Enclosure	Double molded, waterproof	
Shock	(Drop Test) 6.5 feet (2 meters)	
Diode Test	Test current of 1.5mA maximum, open circuit voltage 3.2V DC typical	
Continuity Check	Audible signal will sound if the resistance is less than 35 Ω (approx.), test current <0.35mA	
PEAK	Captures peaks >1ms	
Temperature Sensor	Requires type K thermocouple	
Input Impedance	$>10M\Omega$ VDC & $>3M\Omega$ VAC	
AC Response	True RMS	
AC True RMS:	The term stands for "Root-Mean-Square," which represents the method of calculation of the voltage or current value. Average responding multimeters are calibrated to read correctly only on sine waves and they will read inaccurately on non-sine wave or distorted signals. True rms meters read accurately on either type of signal.	
ACV Bandwidth	50Hz to 1000Hz	
Crest Factor	\leq 3 at full scale up to 500V, decreasing linearly to \leq 1.5 at 1000V	
Display	40,000 counts backlit liquid crystal with bar graph	
Overrange indication	"OL" is displayed	
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	"Î" is displayed if battery voltage drops below operating voltage	
Battery	One 9 volt (NEDA 1604) battery	
Fuses	mA, μ A ranges; 0.5A/1000V ceramic fast blow A range; 10A/1000V ceramic fast blow	

8.12. GENERAL SPECIFICATIONS Cont.

Function	Range
Operating Temperature	5°C to 40°C (41°F to 104°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Operating Humidity	Max 80%
Storage Humidity	<80% up to 31°C decreasing linearly to 50% at 40°C
Operating Altitude	2000 meters maximum.
Weight	342g (includes holster).
Size	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) ,61010-2-033.





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