



# Digital Clamp Meter (TRMS) Model : 2727



## Instruction Manual

### 1. SPECIFICATIONS

#### 1.1 General Specifications

- Display** : 3 ¾ digit liquid crystal display (LCD) with a maximum reading of 3999.
- Polarity** : Automatic, positive implied, negative polarity indication.
- Overrange** : (OL) or (-OL) is displayed.
- Zero** : Automatic.
- Low battery indication** : "(+ -)" is displayed when the battery voltage drops below the operating level.
- Measurement rate** : 2.5 times per second, nominal.
- Operating Environment** : 0°C to 50°C at < 70% relative humidity.
- Storage Temperature** : -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.
- Accuracy** : Stated accuracy at 27°C ± 5°C, <75% relative humidity.
- Power** : Single standard 9 Volt battery EVEREADY TYPE 216 or Equivalent.
- Battery life** : 200 hours typical with carbon-zinc.
- Dimension** 2727 : 192mm(H)x82mm(W)x33mm(D).
- Weight** 2727 : 270grams approx.
- Accessories** : One "K" type thermocouple, one pair of test leads 9V battery (installed), instruction manual.
- Maximum Jaw Opening** : 2727 : 30mm.

#### 1.2 Electrical Specifications

##### AC CURRENT (True RMS)

Range	Accuracy	Overload Protection
40A	50/60Hz ± (2%rdg+4dgt) 40-500Hz ± (3.5%rdg+5dgt)	1000A ac max.
400A/600A (2727)	40 - 500Hz ± (3.5%rdg+5dgt)	for 1 min.

##### AC VOLTS (True RMS) (50 Hz - 500Hz)

Range	400V,750V
Resolution	100mV
Accuracy	± (2.9%rdg+4dgts)
Input Impedance	10MΩ
Overload protection	1000V DC or 750V AC rms

##### DC VOLTS

Range	1000V
Resolution	1V
Accuracy	± (1.5%rdg+1dgt)
Input Impedance	10MΩ
Overload protection	1000V DC or 750V AC rms

##### RESISTANCE

Range	400Ω, 400KΩ
Resolution	100mΩ
Accuracy	± (1.5%rdg+3dgt)
Open circuit voltage	0.6V DC (3.0V DC on 400Ω
Overload protection	range) 500V DC or AC rms

##### DIODE TEST

Test Current	1.0mA ± 0.6mA
Accuracy	± (3%rdg + 3dgt)
Open circuit volts	3.0V DC typical
Overload protection	500V DC or AC rms

##### FREQUENCY (Autoranging)

Ranges	4kHz - 40kHz
Accuracy	± (1%rdg+2dgt)
Sensitivity	100V rms min
Overload Protection	500V DC or AC rms (50Hz-1KHz)

##### TEMPERATURE

Ranges	- 20°C ~ 750°C
Resolution	1°C
Accuracy	± (2.0% rdg + 3 dgts ) on -20°C ~ 500°C ± (3.0% rdg + 2 dgts ) on 500°C ~ 750°C

##### CONTINUITY

Audible indication	less than 100Ω
Overload protection	500V DC or AC rms

## 2. OPERATION

Before taking any measurements, read the safety information section Always examine the instrument for damage, contamination (excessive dirt, grease, ect.) and defects. Examine the test leads for cracked or trayed insulation. If any abnormal conditions exist do not make any measurements.

### MAX. DATA HOLD SWITCH

The push switch (push Latch, Push Release) will hold the maximum reading on the display. The display will update if a higher value is measured. A "p" will appear in the display when this feature is enabled."

### 2.1 Current Measurements

1. Set the Function/Range switch on the highest 600A AC range.
2. Press the trigger to open transformer jaws and clamp onto one conductor only. Read the current directly on the display. It is recommenced that the conductor be placed at the center of the closed jaws for maximum accuracy.
3. When the reading is lower than 400 counts, set the range switch to the next lower range position. For maximum accuracy, select the lower range possible without over ranging the meter.

### 2.2 Voltage Measurements

1. Connect the red test lead to the "VΩ" jack and the black test lead to the "COM" jack.
2. Set the Function/Range switch to the desired Voltage type (AC or DC) and range. If magnitude of voltage is not known, set switch to the highest range and reduce until a satisfactory reading is obtained.
3. Connect the test leads to the device or circuit being measured.
4. For DC, a (-) sign is displayed for negative polarity; positive polarity is implied.

### 2.3 Frequency Measurements

1. Set the Function/Range switch to the "Hz" position.
2. Connect the red test to the "VΩ" jack and the black test lead to the "COM" jack.
3. Connect the test leads to the point of measurements and read

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the frequency from the display.

### 2.4 Temperature Measurements

#### WARNING : Remove test leads before measuring temperature

1. Set the Function/Range switch to the "C" position.
2. Connect a k type thermocouple to the jack on the instrument. Place the probe or thermocouple tip on or in the material to be measured and take the temperature reading directly from the display.

### 2.5 Diode Test

1. Connect the red test lead to the "VΩ" jack and black test lead to the "COM" jack.
2. Set the Function/rRange switch to the diode position.
3. Turn off power to the circuit under test.
4. Touch probes to the diode. A forward-voltag drop is about 0.6V (typical for a silicon diode.)
5. Reverse probes If the diode is good, display will be between 2.800V and 3.200V. If the diode is shorted, ".000" or another number is displayed.
6. If the diode is open, display will be between 2.800V and 3.200V, in both directions.
7. If the diode is measured in a circuit and a low reading is obtained with both lead connections, the diode may be shunted by a resistance of less than 1kΩ. In this case the diode must be disconnected from the circuit for accurate tasting

### 2.6 Resistance and Continuity Measurements

1. Set the Function/Range switch to the desired resistance range or continuity position.
2. Disconnect power from the equipment under test.
3. Connect the red test lead to the "VΩ" jack and the black test lead to the "COM" jack.
4. Touch the probes to the test points. In ohms, the value indicated in the display is the measured value of resistance. In continuity test, the beeper sounds continuously if the resistance is less than 100Ω.

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## 3. MAINTENANCE

### WARNING

Remove test leads before changing battery or performing any servicing.

### Battery Replacement

Power is supplied by a 9 volt "transistor" battery EVEREADY TYPE 216 or Equivalent. The "(+ -)" appears on the LCD display when replacement is needed To replace the battery, remove the screw from the meter and lift off the battery cover Remove the battery from battery contacts and replace cover.

## 4. SAFETY INFORMATION

The following safety information must be observed to ensure maximum personal safety during the operation of this meter :

1. Do not use the meter if the meter or test leads lock damaged, or if you suspect that the meter is not operating properly.
2. This clamp meter is designed to take current measurements on circuit with a maximum voltage difference of 500VAC between any conductor and ground potential. Using the instrument for current measurements on circuit above this voltage may cause electric shock, instrument damage or damage to the equipment under test.
3. Turn off power to the circuit under test before cutting, unsoldering, or breaking the circuit Small amounts of current can be dangerous.
4. Use caution when working above 60V DC or 30V AC rms. Such voltages pose a shock hazard.
5. When using the probes, keep your fingers behind the finger guards on the probes.
6. Measuring voltage which exceeds the limits of the clamp meter may damage the meter and expose the operator to a shock hazard. Always recognize the meter voltage limits as stated on the meter.

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## CERTIFICATE OF CALIBRATION

We hereby certify that this product has been calibrated and found to be in accordance with the applicable SPECIFICATIONS and MECO STANDARDS.

Accuracies of the standard equipment used in this calibration are traceable to the National Standards.

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MODEL NO : \_\_\_\_\_

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# DIGITAL CLAMP METER

## MODEL : 2025-Hz TRMS

### INSTRUCTION MANUAL

## 1. SPECIFICATIONS

### 1.1 General Specification

- Display** ■ 3½ digit liquid crystal display (LCD) with a maximum reading of 3999.
- Polarity** ■ Automatic, positive implied, negative polarity indication.
- Overrange** ■ (OL) or (-OL) is displayed.
- Zero** ■ Automatic.
- Low battery indication** ■ “ ” is displayed when the battery voltage drops below the operating level.
- Measurement rate** ■ 3 times per second, nominal.
- Operating Environment** ■ 0°C to 50°C at < 70% relative humidity.
- Storage Temperature** ■ -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.
- Power** ■ Two 1.5V ‘AAA’ Size Battery
- Battery life** ■ 200 hours typical
- Dimensions** ■ 250mm X 98mm X 35mm
- Weight** ■ 400 grams approx.
- Accessories** ■ One pair of test leads, instruction manual, 1.5V battery (installed), Carrying Case,
- Maximum Jaw Opening** ■ 55mm

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### 1.2 Electrical Specification

Accuracies are ± (% reading + number of digits) at 27 ± 5°C and humidity of less than 75% RH.

#### AC CURRENT (True RMS)

Range	Accuracy	Overload Protection
40A 400A / 1000A	50-60Hz ±(3% rdg+ 6dgt) 40-500Hz ±(3.5% rdg+ 5dgt)	1000A AC Max. for 1 minute

#### DC VOLTAGE (Auto Ranging)

- Ranges : 4V, 40V, 400V, 1000V
- Accuracy : ± (1% of rdg + 2 dgt)
- Resolution : 1mV to 1V
- Input Impedance : 10MΩ on all ranges except, 11MΩ on 4V
- Overload Protection : 1200V DC/800V AC

#### AC VOLTAGE (Auto Ranging) 40-500Hz

- Range : 4V, 40V, 400V, 750V
- Accuracy : ± (1.5% rdg + 6 dgt)
- Resolution : 1mV to 1V
- Input Impedance : 10MΩ on all ranges except, 11MΩ on 4V
- Overload Protection : 1200V DC/800V AC

#### RESISTANCE (Auto Ranging)

- Range : 400Ω, 4KΩ, 40KΩ, 400KΩ, 4MΩ, 40MΩ
- Accuracy : ± (2.5% of rdg + 3 dgt)

- Resolution : 0.1Ω to 0.01MΩ
- Test Current : 0.7mA on 400Ω, 0.1mA on 4KΩ, 30μA on 40KΩ, 4μA on 400KΩ
- Overload Protection : 500V DC/AC
- Continuity Check**
- Threshold Level : 40Ω Approx.
- Response Time : 1m Sec. Approx.
- Open Circuit Voltage : 0.4V Approx.
- Indication : ‘’ is displayed on LCD and buzzer sounds at continuity.
- Overload Protection : 500V DC / AC
- Diode Test**
- Measurement Current : 1.0 ± 0.6 mA Approx.
- Open Circuit Voltage : 0.4V Approx.
- Overload Protection : 500V DC / AC
- Frequency (Auto Ranging)**
- Range : 10.00Hz, 50.00Hz, 500.0Hz, 5.000kHz, 50.00kHz, 500.0kHz
- Accuracy : ± (0.5% rdg + 5 dgt)
- Sensitivity : 3V
- Overvoltage Protection : 200V DC or AC peak
- % Duty Cycle (Auto Ranging)**
- Range : 1% to 90%
- Accuracy : ± (0.5% rdg + 5 dgt)
- Resolution : 0.1%
- Overvoltage Protection : 200V DC or AC peak

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## 2. OPERATION

Before taking any measurements, read the safety information section.

Always examine the instrument for damage, contamination (excessive dirt, grease, etc.) and defects. Examine the test leads for cracked or frayed insulation. If any abnormal conditions exist do not attempt to make any measurements.

### SELECT BUTTON

In ACV Range it will select ACV / Hz/Duty function. In  $\Omega$ / $\rightarrow$ / $\rightarrow$ / $\rightarrow$  range it will select resistance or diode or continuity function. In Hz it will select Hz/Duty function.

### DATA HOLD BUTTON

Press Data Hold button to toggle in and out of Data Hold mode, In the Data Hold mode, the "HOLD" annunciator is displayed.

### 2.1 Current Measurements

1. Set the Function / Range switch to the highest 1000A AC range.
2. Press the trigger to open transformer jaws, clamp onto one conductor only and release trigger. Jaws should be completely closed. Read the current directly on the display. It is recommended that the conductor be placed at the center of the closed jaws for maximum accuracy (Fig. - 1).



Fig. 1

3. When the reading is lower than 400 counts, set the range switch to the next lower range position. For maximum accuracy, select the lowest range possible without over ranging the meter.
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4. Touch probes to the diode. A forward-voltage drop is about 0.6V (typical for a silicon diode).
5. If the digital display reads overrange "OL", reverse the lead connections. The placement of the test leads when the forward reading is displayed indicates the orientation of the diode. The red lead is positive and the black lead is negative. If overrange "OL" is displayed with both lead connections, the junction is open. If a low reading (less than 1000) is obtained with both lead connections, the junction is shorted internally or (if junction is measured in a circuit) the junction is shunted by a resistance less than 1K $\Omega$ . In the latter case the junction must be disconnected from the circuit in order to verify its operation.

### 2.5 Continuity Measurement

In continuity test, the beeper sounds continuously, if the resistance is less than 40 $\Omega$ .

### 2.6 Frequency & Duty Cycle Measurement

There are 2 positions for Frequency & Duty cycle measurements.

- a) "Hz" position (Not for line frequency measurement.)
- b) "ACV" position. (for line frequency measurement)

#### 2.6a "Hz" position (Not for line frequency measurement.)

Sensitivity : 3V  
Frequency Range : 10Hz to 500kHz  
Duty Cycle : 1% to 90%  
Overvoltage Protection : 200V DC or AC peak

1. Connect test lead to "V $\Omega$ " and "COM" terminal.
2. Set rotary switch to "Hz" position.
3. Select Frequency or Duty cycle by pressing "Select" key.
4. Connect the test leads across the source or load under measurement.

### 2.2 Voltage Measurements

1. Connect the red test lead to the "V $\Omega$ " jack and the black test lead to the "COM" jack.
2. Set the Function/Range switch to the desired Voltage type (AC or DC)
3. Connect the test leads to the device or circuit being measured.
4. For DC, a (-) sign is displayed for negative polarity; positive polarity is implied.

### 2.3 Resistance Measurements

1. Connect red test lead to the "V $\Omega$ " jack and black test lead to the "COM" jack.
2. Set function / Range switch to  $\Omega$ / $\rightarrow$ / $\rightarrow$ / $\rightarrow$  position.
3. If the resistance being measured is connected to a circuit, turn off power to the circuit being tested and discharge all capacitors.
4. Connect test leads across the resistance being measured. When measuring high resistance, be sure not to contact adjacent points even if insulated because some insulators have a relatively low insulation resistance, causing the measured resistance to be lower than the actual resistance.
5. Read resistance value on digital display. If a high resistance value is shunted by a large value of capacitance allow display to stabilize.

### 2.4 Diode Test

1. Connect the red test lead to the "V $\Omega$ " jack and black test lead to the "COM" jack.
2. Set the Function / Range switch to the  $\Omega$ / $\rightarrow$ / $\rightarrow$ / $\rightarrow$  position, select " $\rightarrow$ " by pressing select key.
3. Turn off power to the circuit under test.

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#### 2.6b "ACV" position (For line frequency measurement.)

Sensitivity : 2V  
Frequency Range : 40Hz to 500Hz  
Duty Cycle : 10% to 90%  
Overvoltage Protection : 1000V DC or 750V AC peak

1. Connect test lead to "V $\Omega$ " and "COM" terminal.
2. Set rotary switch to "ACV" position.
3. Select Frequency or Duty cycle by pressing "Select" key.
4. Connect the test leads across the source or load under measurement.

## 3. MAINTENANCE

### WARNING

*Remove test leads before changing battery or servicing.*

#### Battery Replacement

Power is supplied by two 1.5V 'AAA' size battery or Equivalent.

The " $\rightarrow$ " appears on the LCD display when replacement is needed. To replace the battery, remove the screw from the battery cover and lift off the battery case. Remove the batteries & replaced with new batteries.

## 4. SAFETY INFORMATION

The following safety information must be observed to ensure maximum personal safety during the operation of this meter:

1. Do not use the meter if the meter or test leads look damaged, or if you suspect that the meter is not operating properly.
2. This Clamp Meter is designed to take current measurements on circuits with a maximum voltage difference of 500VAC between any conductor and ground potential. Using the instrument for current measurements on circuits above this voltage may cause electric shock, instrument damage or damage to the equipment under test.





**MECO**®

## DIGITAL CLAMP ON METER

**MODEL : 3636**

**USER MANUAL**

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## SAFETY INFORMATION

The following safety information must be observed to insure maximum personal safety during the operation at this meter:

1. Do not use the meter if the meter or test leads look damaged, or if you suspect that the meter is not operating properly.
2. Use caution when working above 60V dc or 30V ac rms. Such voltages pose a shock hazard.
3. When Using the probes, keep your fingers behind the finger guards on the probes.
4. Measuring voltage which exceeds the limits of the clamp meter may damage the meter and expose the operator to a shock hazard. Always recognize the meter voltage limits as stated on the front of the meter.
5. If the equipment is used in a manner not specified by the manufacturer, the protection provided the equipment may be impaired.

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## SPECIFICATIONS

**Display** : 3½ digit liquid crystal display (LCD) with a maximum reading of 1999.

**Polarity** : Automatic, positive implied, negative polarity indication.

**Overrange** : (OL) or (-OL) is displayed.

**Zero** : Automatic.

**Low battery indication** : the "⚡" is displayed when the battery voltage drops below the operating level.

**Measurement rate** : 2.5 times per second, nominal.

**Operating Environment** : 0°C to 40°C at < 70% relative humidity.

**Storage Temperature** : -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.

**Accuracy** : Stated accuracy at 23°C ± 5°C, <75% relative humidity.

**Safety** : According to EN61010-1 protection class II over-voltage category (CAT III 600V) pollution degree 2.

**Clamp jaw** : According to EN61010-2-032 CAT IV 600V.

**Power** : single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22.

**Battery life** : 200 hours typical with carbon-zinc,

**Dimensions** : 250mm (H) x 100mm (W) x 46mm (D).

**Weight** : Approx. 380g including battery.

**Accessories** : One pair test leads, 9V battery (installed).

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## DC VOLTS

**Ranges** : 600V

**Accuracy** : ±(0.5% rdg + 1dgt)

**Input Impedance** : 10MΩ

**Overload protection** : 600VDC or AC rms

## AC VOLTS (True RMS) (50Hz - 500Hz)

**Ranges** : 200V, 600V

**Accuracy** : ±(1.2% rdg + 10dgt)

**Input Impedance** : 10MΩ

**Overload protection** : 600VDC or AC rms

## RESISTANCE

**Rangea** : 2KΩ, 200KΩ

**Accuracy** : ±(1.2% rdg + 1dgt)

**Open circuit volts** : 0.3Vdc

**Overload protection** : 600VDC or AC rms

## FREQUENCY (Autoranging)

**Ranges** : 2KHz, 20KHz

**Accuracy** : ±(0.1% rdg + 3dgt)  
on all ranges

**Sensitivity** : 80Vrms min

**Overload protection** : 600VDC or AC rms

## CONTINUITY

**Audible Indication** : less than 30Ω on 2KΩ range

**Overload protection** : 600VDC or AC rms

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## DIODE TEST

**Test current :** 1.0mA  $\pm$  0.6mA

**Accuracy :**  $\pm$ (6.0% rdg + 3dpts)

**Open circuit volts :** 3.0Vdc typical

**Audible Indication :** < 30mV

**Overload protection :** 600VDC or AC rms

## AC CURRENT (True RMS) (Put conductor at the center of the jaws)

**Ranges :** 20A, 200A, 1000A

**Accuracy :**

$\pm$ (1.5%rdg + 10dpts) on all ranges (50Hz/60Hz)

$\pm$ (3.5%rdg + 10dpts) on 700A(40Hz/500Hz)

$\pm$ (2.0%rdg+ 10dpts) on700A to 1000A(50Hz/60Hz)

**Overload protection :** 1000Aac max. for 1 minute

## OPERATION

Before taking any measurements, read the Safety Information Section. Always examine the instrument for damage, contamination (excessive dirt, grease, etc.) and defects. Examine the test leads for cracked or frayed insulation. If any abnormal conditions exist do not attempt to make any measurements.

**H Button :** Press “ H ” button to toggle in and out of DATA Hold mode, In the DATA Hold mode, the “ H ” annunciator is displayed. (The DATA Hold mode may be exited when changing function.)

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## MAX HOLD Button :

Press “ MAX ” button to toggle in and out of MAX Hold mode (holding the highest absolute reading). In the MAX Hold mode, the “ MAX ” annunciator is displayed.

Current and Hz ranges without MAX HOLD function.

## PEAK HOLD Button : (only current ranges 40-60Hz)

Press “PEAK” button to toggle in and out of PEAK Hold mode. In the PEAK Hold mode, the “ P ” annunciator is displayed. {Accuracy :  $\pm$  [10% (reading -residual offset) + 10dpts], effect reading : 80~2000}

## Voltage Measurements

1. Connect the red test lead to the “V” jack and the black test lead to the “COM” jack.
2. Set the Function/Range switch to the desired Voltage type (AC or DC) and range. If magnitude of voltage is not known, set switch to the highest range and reduce until a satisfactory reading is obtained.
3. Connect the test leads to the device or circuit being measured.
4. For dc, a (-) sign is displayed for negative polarity, positive polarity is implied.

## Current Measurements

1. Set the Function/Range switch to the highest 1000A ac range.
2. Press the trigger to open transformer jaws and clamp onto one conductor only, Read the current directly on the display. It is recommended that the conductor be placed at the center of the closed jaws for maximum accuracy.

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3. When the reading is lower than 200 counts, set the range switch to the next lower range position. For maximum accuracy, select the lower range possible without overranging the meter.

## Resistance Measurements

1. Set the Function/Range switch to the desired resistance range.
2. Remove power from the equipment under test.
3. Connect the red test lead to the “ + ” jack and the black test lead to the “COM” jack.
4. Touch the probes to the test points. In ohms, the value indicated in the display is the measured value of resistance.

## WARNING

The accuracy of the functions might be slightly affected, when exposed to a radiated electromagnetic field environment, eg, radio, telephone or similar.

## Frequency Measurements

1. Set the Function/Range switch to the Hz position.
2. Connect the red test lead to the “ + ” jack and the black test lead to the “COM” jack.
3. Connect the test leads to the point of measurement and read the frequency from the display.

## Continuity Measurements

1. Set the Function/Range switch to the “•••) / 2K $\Omega$ ” position.
2. Touch the probes to the test points. the beeper sounds continuously, if the resistance is less than 30 $\Omega$ .

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## Diode Tests

1. Connect the red test lead to the “ + ” jack and the black test lead to the “COM” jack.
2. Set the Function/Range switch to the “  $\rightarrow$  ” position.
3. Turn off power to the circuit under test.
4. Touch probes to the diode. A forward-voltage drop is about 0.6V (typical for a silicon diode).
5. Reverse probes. If the diode is good, “OL” is displayed. If the diode is shorted, “.000” or another number is displayed.
6. If the diode is open, “OL” is displayed in both directions.
7. If the junction is measured in a circuit and a low reading is obtained with both lead connections, the junction may be shunted by a resistance of less than 1k $\Omega$ . In this case the diode must be disconnected from the circuit for accurate testing,

## MAINTENANCE

WARNING : Remove test leads before changing battery or performing any servicing.

## Battery Replacement

Power is supplied by a 9 volt “transistor” battery. (NEDA 1604, IEC 6F22). The “  $\left[ \begin{array}{c} \text{+} \\ \text{—} \end{array} \right]$  ” appears on the LCD display when replacement is needed. To replace the battery, remove the two screws from the back of the meter and lift off the battery cover. Remove the battery from battery contacts.

## Cleaning

Periodically wipe the case with a damp cloth and detergent, do not use abrasives or solvents.

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NOTE



### Certificate of Calibration

We hereby certify that this product has been calibrated and found to be in accordance with the applicable SPECIFICATIONS and STANDARDS.

Accuracies of the standard equipment used in this calibration are traceable to the National Standards.

### MECO METERS PVT. LTD.

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