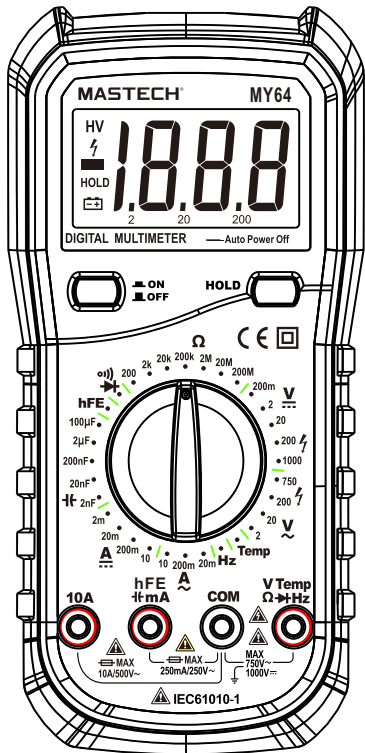


MASTECH®

MY60-64

Digital Multimeters



CAT II
1000V

CAT III
600V



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1. General instructions

This digital multimeter has been designed according to the International Electro Safety Standard IEC – 61010 concerning safety requirements for electronic measuring instruments and hand-held digital multimeters.

It meets the requirements for 600V CAT III, 1000V CAT II of IEC61010 and Grade 2 for pollution. Before using this meter, please read this user's manual carefully and respect the related safety precautions. Please see the description of section 1.1.3 for international symbols used in the meter and instructions.

1.1 Safety information

1.1.1 Safety instructions

* Measurement type IV (CAT IV), to use the entrance from repair port to power meter and the primary over-current protection device.

* Measurement type III (CAT III) is the measurement made within the building equipment.

Note: For example, wiring of switchboard and circuit protector within fixed equipment includes cable, bus bar, junction box, switch, socket output end, equipment for industrial purposes and other equipment (such as permanently connected to fixed motor of fixed equipment) for measurement.

* Measurement type II (CAT II) is the measurement made on the circuit which is connected directly to low voltage equipment.

Note: For example, measuring household equipment, portable instruments and similar devices.

* Measurement type I (CAT I) is the measurement made on the circuit which is not directly connected with bus bar.

Note: For example, the measurement which is not made on the circuit not derived from bus bar and special (internal) protection bus circuit. (For the latter, the instant overload varies, so the instant overload resistance of equipment must be clearly marked.)

* When using this meter, the user should comply with the following standard safety procedures:

- The safety procedures to prevent electric shock
- The safety procedures to prevent wrong use

* To ensure your safety, please use the test probe provided with the meter. Before use, please check and make sure that it is intact.

1.1.2 Safe working habits

* If the meter is used near a source of significant electromagnetic interference, meter readings will become unstable and have large errors.

* Don't use the meter or probe when it is broken.

* If you do not use the meter in accordance with the instructions, safety functions provided by the meter may become invalid.


* When you work around the bare conductor or bus bar, you should be extremely careful.

* Do not use the meter near explosive gas, vapor or dust.

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- * Measure known voltage with meter to verify that the meter is working properly. If the meter is working abnormally, do not use. Protective equipment may be damaged. If there is doubt, the meter should be sent to repair.
- * The meter should be used with correct input, function and measuring range.
- * When you can't determine the size range of signal to be tested, please switch the measuring range to the maximum position.
- * Input value can't exceed the input limit specified in each measuring range to prevent damage to the meter.
- * When the meter is connected to the circuit being measured, do not touch the unused input end.
- * When the voltage to be tested exceeds 60Vdc or 30Vac effective value, please operate carefully to prevent electric shock.
- * When use the test probe to measure, you should place your fingers at the back of retaining ring.
- * When you measure with test probe, first connect the common testing end of black test probe to the common testing end of circuit to be tested, then connect red test leads to the test circuit of the test probe to the test end of circuit to be tested. When the measurement is completed, you should first remove the red test probe, then remove the black common test probe.
- * Before changing the measuring range, you must ensure that the test probe is not connected to circuit to be tested.

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- * For all DC functions, including manual or automatic measuring range, to avoid the risk of electric shock due to possible incorrect readings, please use AC function to verify the existence of any AC voltage. Then, select DC voltage measuring range equal to or greater than the AC measuring range.
- * Before testing resistance, diode, capacitance measurement or on-off states, you should first cut off power to the circuit being tested, and discharge all high voltage capacitors.
- * Don't measure resistance or make on-off tests on a live circuit. .
- * Before current measurement, you should firstly check the meter's fuse. Before the meter is connected to the circuit under testing, you should firstly power off the circuit to be tested.
- * When you make TV repairs or measure power conversion circuits, you should note the high amplitude voltage pulse of circuits being tested. The TV filter should be used to weaken these pulses to avoid the meter damage.
- * This meter uses a 9V 6F22 battery. The battery should be properly installed in the meter's battery compartment.
- * When the battery indicator  appears, the battery should be replaced immediately. Low battery will cause meter reading errors, and possibly result in electric shock or personal injury
- * When you make type II voltage measurement, the voltage should not exceed 1000V; when you make type III voltage measurement, the voltage should not exceed 600V.
- * When the meter shell (or part of shell) is removed, do not use the meter.

1.1.3 Safety symbols

Symbols used on the meter surface and instructions:

 Important safety information. Refer to the instructions before use. Misuse can result in equipment or its components damage.

 AC (Alternating Current)

 DC (Direct Current)

 AC or DC

 Ground

 Double insulation protection

 Fuse

 European Union Directive

1.1.4 Safe maintenance habits

- * To open the meter shell or remove the battery cover, you should first pull out the test probe.
- * When performing meter maintenance, you should use specified replacement parts.
- * Before opening the meter, you should disconnect all power supplies and ensure that you have no static electricity to avoid damaging the meter components.
- * Meter calibration, maintenance, repair and other operations only can be performed by technicians who fully understand the meter and electrical shock hazards.

- * Before opening the meter, you should be aware that there may be dangerous voltages remaining in some capacitances in the meter even after powering off.
- * If you find any abnormal phenomena on the meter, the meter should be immediately turned off and repaired. Ensure that it can not be used before passing inspection.
- * When the meter is not used for a long time, please remove the battery and avoid storing it in a high temperature and humidity environment.

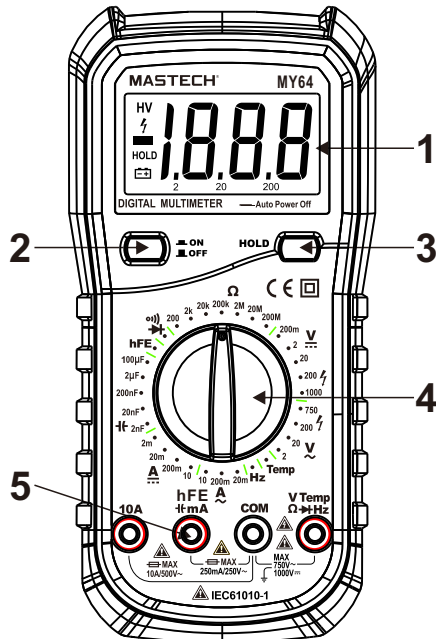
1.2 Input protection measures

- * When making voltage measurements (not including 200mV grade), the maximum input voltage is 1000V DC or 750V AC.
(The maximum input voltage of 200mV grade is 250V AC or equivalent RMS value voltage).
- * When making frequency, resistance, on-off and diode measurements, the maximum voltage is 250V AC or equivalent RMS value voltage.
- * When making capacitance, temperature, mA current, and triode hFE measurements, the meter is protected through a fuse (F250mA/250V).

2. Meter appearance description

2.1 Meter appearance

FRONT PANEL



- 1. LCD(liquid crystal display)
- 2. Mains Switch
- 3. HOLD Key
- 4. Rotary Switch
- 5. Input Socket

2.2 LCD display

See Table 1 for information about the display.

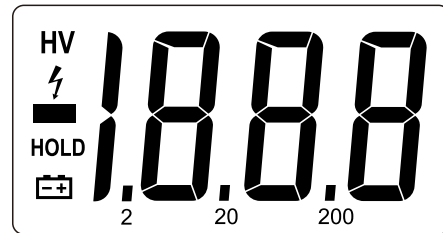


Fig. 1 Display



Table 1 Display Symbols

Symbols	Indication
	Low battery. ⚠ To avoid wrong readings causing electric shock or personal injury, when the low battery symbol appears, the battery should be replaced immediately.
	Negative input polarity indication
HV	High voltage symbol, in AC750V or DC1000V.
HOLD	Keep the current measurement value

2.3 Input socket

See Table 3 for information about the test side.

Table 2 Input Socket

Input Socket	Description
COM	All common input ends to be measured are connected with common output socket of black test probe or dedicated multifunction test socket.
 V, Ω, Hz TEMP	Positive input end of voltage, resistance, frequency, diode, buzzer measurement and temperature test (connected with the red test probe).
hFE mA, 	Positive input end of current mA, temperature and triode hFE (connected with output socket of black test probe or dedicated multifunction test socket).
10A	Positive input end of 10A (connected with the red test probe).

2.4 Accessories

Operation Manual	1 pc
Test probe	1 pc
K-type thermocouple (only for MY62, 64)	1 pc
Dedicated multifunction test socket MS3204	1 pc

3. Operating guidance

3.1 General operation

3.1.1 Reading maintenance mode

In reading maintenance mode, the current readings will be kept on the display. Change the measurement function grade, or press **HOLD** key to exit reading maintenance mode.

To enter and exit reading maintenance mode:


1. Press "**HOLD**" key, the reading will be maintained and "**H**" symbol will display on LCD display simultaneously.
2. Press "**HOLD**" key again to return the meter to normal measurement state.

3.1.2 Battery saving energy function

The meter power will disconnect automatically after about 20 minutes, to save battery power.

3.2 Measuring guidance

3.2.1 Measuring AC and DC voltage

 **Don't measure any RMS voltage higher than 1000V DC or 750V AC, to prevent electrical shock and/or meter damage.**
Don't measure any RMS voltage higher than 1000V DC or 750V AC between common end and ground, to prevent electrical shock and/or meter damage.

Voltage is the potential difference between two points. AC voltage polarity changes over time, while DC voltage polarity does not change over time.

DC voltage measuring range of this meter:
200.0mV, 2.000V, 20.00V, 200.0V and 1000V;
AC voltage measuring range of this meter:
200mV (only for MY60, 61, 62),
2.000V, 20.00V, 200.0V and 750V.

To measure AC and DC voltage:

1. Rotate the switch to the appropriate position.
2. Respectively connect black and red test probe to COM input socket and V input socket.
3. Measure the voltage of circuit to be tested with other two ends of test probes.
(Connected with the circuit to be tested in parallel)
4. Read the measuring voltage value from LCD display. When measuring DC voltage, the display will simultaneously show the voltage polarity which is connected with red test probe.

Note:

- In the DC 200mV and AC200mV (only for MY60 MY61 MY62) AC 2V measuring range, the meter will have a number of displays even without input or connecting with test probe. In this case, just make a short circuit between “V-Ω” and “COM”, so that the meter will display zero.

3.2.2 Measuring resistance

⚠ To avoid damaging meter or device to be measured, 10 before measuring resistance, cut off all circuits being tested and discharge all high voltage capacitors.

Resistance is resistance force of current. The unit of resistance is ohm (Ω).

Resistance range of this meter: 200.0Ω, 2.000kΩ, 20.00kΩ, 200.0kΩ, 2.000MΩ, 20.00MΩ, 200.0 MΩ.

To measure resistance:

1. Rotate switch to the appropriate position.
2. Respectively connect black and red test probe to VΩ input socket and V input socket.
3. Measure the resistance value of circuit to be tested with other two ends of test probes.
4. Read the measuring resistance value from LCD display.



Here are some tips for measuring resistance:

- The resistance measured on circuit is usually different from the rated value of resistance. This is because the test current of the meter will flow through all possible channels between test probes.
- When measuring low resistance, in order to accurately measure, make a short circuit between two test probes to read the resistance value when short circuited. This resistance value should be subtracted after measuring the resistance to be tested.
- At grade 20MΩ and 200 MΩ, the reading will be stable after several seconds. A high resistance measuring is normal.
- When there is no input (for example, in an open circuit), the display will show “1”, which means that the measured value is out of range.

3.2.3 Testing diode

⚠ To avoid damaging meter or device to be measured, before measuring diodes, cut off all circuits being tested and discharge all high voltage capacitors.

To test diode outside circuit:



1. Rotate the switch to  position.
2. Respectively connect black and red test probe to COM input socket and  input socket.
3. Respectively connect black and red test probe to negative pole and positive pole of the diode to be tested.
4. The meter will display the forward bias voltage value of diode being tested. If the test probe polarity is reversed, the meter will display “1”.

In a circuit, a good diode should still produce a forward voltage drop of 0.5V to 0.8V; but the reverse bias voltage will vary depending on resistance values of other channels between two test probes.

3.2.4 Audible continuity testing

⚠ To avoid damaging meter or device to be measured, before testing buzzer continuity, cut off all circuits being tested and discharge all high voltage capacitors.

To make continuity testing:

1. Rotate the switch to  position.
2. Respectively connect black and red test probe to COM input socket and  input socket.


3. Measure the resistance value of circuit to be tested with other two ends of test probes.
4. During on-off testing, if the measured circuit resistance is not greater than about 50Ω, the buzzer will sound continuously.

3.2.5 Measuring capacitance (only for MY61, 62, 63, 64)

⚠ To avoid damaging meter or device to be measured, before measuring capacitance, cut off all circuits being tested and discharge all high voltage capacitors. Determine that capacitors are discharged with DC voltage measurement function.

Capacitance range of this meter: 2.000nF, 20.00nF, 200.0nF, 2.000μF and 100.0μF.

To measure capacitance:

1. Rotate switch to the appropriate position.
2. Respectively connect black and red test probe to COM input socket and  input socket.
3. Measure the capacitance value of circuit to be tested with other two ends of test probes and read the measuring value from LCD display.

Here are some tips for measuring capacitance:

- When measuring bulk capacitor with this meter, readings will stabilize after a few seconds.
- To improve the accuracy below 2nF, subtract the distributed capacitance of meter and cable.

3.2.6 Transistor measuring

⚠ Don't apply any RMS voltage higher than 250V DC or AC between common end and mA end, to prevent electrical shock and/or meter damage.

1. Rotate the switch to hFE position.
2. Plug multi-function socket with correct polarity (the “+” end of multi-function socket is connected with “hFE” end, “COM” end is connected with common end).
3. Determine that the transistor is NPN or PNP type, then insert three pins of transistor to the corresponding holes of the dedicated multi-functional socket
4. Read hFE approximation of transistor to be measured from LCD display.

3.2.7 Measuring frequency (only for MY63, 64)

⚠ Don't measure the frequency of RMS voltage higher than 250V DC or AC, to prevent electrical shock and/or meter damage.

To measure frequency:

1. Rotate the switch to Hz position.
2. Respectively connect black and red test probe to COM input socket and Hz input socket.
3. Measure the frequency value of circuit to be tested with other two ends of test probes.
4. Read the measuring frequency value from LCD display.

3.2.8 Measuring temperature (only for MY64, 62)

⚠ Don't measure the surface of object with electric quantity higher than 60V DC or 24V AC RMS, to prevent electrical shock. Don't measure the temperature in a microwave oven to prevent fire or meter damage.

To measure temperature:

1. Rotate switch to Temp position. Environmental temperature will show on the LCD display simultaneously.
2. Plug multi-function socket with correct polarity (the “+” end of multi-function socket is connected with Temp end, “COM” end is connected with common end).
3. Insert K-type thermocouple to the temperature socket of dedicated multi-function test socket with correct polarity.
4. Measure the surface and inner of object to be tested with the measuring end of thermocouple.
5. Read the measuring value from LCD display.

3.2.9 Measuring current

⚠ When the ground voltage of open circuit voltage exceeds 250V, do not try to make current measurements on the circuit. If the fuse is blown when making a measurement, you may damage the meter or injure yourself. To avoid damage to meter or device, before measuring current, please check the meter's fuse. When measuring, you must use the correct input socket, function and measuring range. When the test probe is inserted to the current input socket, don't connect the other end of the test probe with any circuit in parallel.

Current range of this meter: 20 μ A/200 μ A
(only for MY60)


2.000mA, 20.00mA, 200.0mA and 10.00A;

To measure current:

1. Cut off the power supply of circuit to be tested.
Discharge all high voltage capacitors on the circuit to be tested.
2. Rotate switch to the appropriate position.
3. Connect the black test probe to the COM input socket. If the current to be tested is lower than 200mA, connect the red test probe to the mA input socket. If the measured current is between the range of 200mA~10A, the red test probe should be connected to 10A input socket.
4. Cut off the circuit to be tested. The black test probe is connected to one end of disconnected circuit (low voltage relatively), and the red test probe is connected to the other end of disconnected circuit (high voltage relatively). (Connecting test probe in reverse would make the reading negative, but the meter won't be damaged.)
5. Connect the power supply of circuit, then read the display reading. If the display shows only "1", the input is out of the selected input range, therefore please rotate the switch to a higher measuring range.
6. Cut off the power supply of circuit to be tested. Discharge all high voltage capacitors. Remove the test probe of meter and restore the circuit to its original condition. .

4. Technical indicators

4.1. Comprehensive indicators

- Operating environment and condition:
1000V CAT.II, 600V CAT.III pollution grade: 2
Elevation < 2000 m
Environment temperature and humidity: 0~40 °C
(<80% RH, <10°C, it is not to be considered).
Storage temperature and humidity: 0~60 °C(<70%
RH, remove the battery).
- Temperature coefficient: 0.1 Accuracy /°C
(<18°C or >28°C).
- The maximum allowable voltage between measurement end and ground: 1000V DC or 750V AC RMS
- Fuse protection: mA grade: Fuse F 250mA/250V; fuse with A grade FF10A/500V
- Sampling rate: about 3 times/sec.
- Display: 3 1/2 digit LCD display. Automatically display unit symbols in accordance with measurement function grade.
- Over-range indication: LCD will show "1".
- Low battery indication: When the battery voltage is lower than the normal operating voltage, "⊖" will display on the LCD display.
- Input polarity indication: automatically display "-" symbol.
- Power supply: DC 9V 
- Battery type: NEDA 1604, 6F22 or 006P.
- Outside measurement: 188 mm(L)×93 mm(W)×50mm(H).
- Weight: about 380g (include battery).

4.2 Accuracy indicators

Accuracy:

±(%reading + word) with one year of warranty.

Reference conditions:

environmental temperature is from 18 °C to 28 °C,
relative humidity is not more than 80%.

4.2.1 DC voltage

Measuring range	Resolution	Accuracy
200mV	0.1mV	±(0.5% reading + 2digits)
2V	1mV	
20V	10mV	
200V	100mV	
1000V	1V	±(0.8% reading + 2digits)

Input impedance: 10MΩ

Maximum input voltage: 1000VDC or 750VAC RMS,
250VDC or AC RMS with the measuring range of 200mV.

4.2.2 AC voltage

Measuring range	Resolution	Accuracy
200mV (only for MY60, 61, 62)	100μV	±(1.2% reading + 3digits)
2V	1mV	±(0.8% reading + 3digits)
20V	10mV	
200V	100mV	
750V	1V	

Input impedance: 10MΩ

Maximum input voltage: 1000VDC or 750VAC RMS,
250VDC or AC RMS with the measuring range of 200mV.

Frequency response: 40Hz-400Hz sine wave RMS
(average response)

The frequency response is 200Hz for 750V

4.2.3 Frequency (only for MY63, 64)

Measuring range	Resolution	Accuracy
20kHz	10Hz	±(2.0% reading + 5digits)
2kHz(only for MY63)	1Hz	±(1.5% reading + 5digits)

Input voltage range: 200mV-10V AC RMS

Overload protection: 250V DC or 250V AC RMS

4.2.4 Resistance

Measuring range	Resolution	Accuracy
200Ω	0.1Ω	±(0.8% reading + 3digits)
2kΩ	1Ω	±(0.8% reading + 2digits)
20kΩ	10Ω	
200kΩ	100Ω	
2MΩ	1kΩ	
20MΩ	10kΩ	±(1.0% reading + 2digits)
200MΩ	0.1MΩ	±(6.0% reading + 10digits)

Overload protection: 250V DC or 250V AC RMS

Open circuit voltage: below 700mV

4.2.5 Diode

Function	Measuring range	Resolution	Test environment
Diode Test →	3.0V (for MY60-62) 2.8V (for MY63-64)	0.001V	Test current: about 1mA. Open circuit voltage: about 2.8V. Display approximation of diode forward voltage drop.

Overload protection: 250V DC or 250V AC RMS

4.2.6 Audible continuity

Function	Description	Test condition
o))	When built-in buzzer sounds, the resistance to be tested is not more than $70\Omega \pm 30\Omega$.	Test current: about 1mA. Open circuit voltage: about 2.8V.

4.2.7 Transistor

Measuring range	Description	Test condition
hFE	hFE approximation on the display, (0 -1000)	Base current $10\mu\text{A}$ V_{ce} is about 2.8V

Overload protection: Fuse (F250mA/250V)

4.2.8 Capacitance (only for MY61, 62, 63, 64)

Measuring range	Resolution	Accuracy
2nF	1pF	$\pm(4.0\% \text{ reading} + 3\text{digits})$
20nF	10pF	
200nF	0.1nF	
2 μF	1nF	$\pm(6.0\% \text{ reading} + 10\text{digits})$
100 μF	100nF	

Overload protection: Fuse (F250mA/250V)

4.2.9 Temperature (only for MY62, 64)

Measuring range	Resolution	Accuracy
-20°C~0°C	1°C	$\pm(5.0\% \text{ reading} + 4\text{digits})$
1°C~400°C		$\pm(2.0\% \text{ reading} + 3\text{digits})$
401°C~1000°C		$\pm(2.0\% \text{ reading} + 5\text{digits})$

Temperature indicator does not include thermocouple error.

Overload protection: Fuse (F250mA/250V)

4.2.10 DC current

Measuring range	Resolution	Accuracy
20 μA (only for MY60)	0.01 μA	$\pm(2.0\% \text{ reading} + 5\text{digits})$
200 μA (only for MY60)	0.1 μA	$\pm(0.8\% \text{ reading} + 1\text{digits})$
2mA	1 μA	
20mA	10 μA	
200mA	0.1mA	$\pm(1.5\% \text{ reading} + 1\text{digits})$
10A	10mA	$\pm(2.0\% \text{ reading} + 5\text{digits})$

Overload protection: fuse with measuring range of mA (F250mA/250V); fuse with measuring range of 10A (FF10A/500V).

Maximum input current: mA grade: 200mA DC or AC RMS;

10A grade: 10A DC or AC RMS

When measured current is greater than 10A, continuous measurement time should not be more than 10 seconds. Stop the current being measured after 15 minutes.

4.2.11 AC current

Measuring range	Resolution	Accuracy
20μA (only for MY60)	0.01μA	±(1.0% reading + 5digits)
200μA (only for MY60)	0.1μA	
2mA (only for MY60, 61)	1μA	
20mA	10μA	
200mA	0.1mA	±(1.8% reading + 5digits)
10A	10mA	±(3.0% reading + 7digits)

Overload protection: fuse with measuring range of mA (F250mA/250V); fuse with measuring range of 10A (FF10A/500V)

Maximum input current: mA grade: 200mA DC or AC RMS;

10A grade: 10A DC or AC RMS

When measured current is greater than 10A, continuous measurement time should not be more

than 10 seconds. Stop the current being measured after 15 minutes.

Frequency response: 40Hz-400Hz, sine wave RMS (average response)

5. Meter maintenance

This section provides basic maintenance information, including instructions for replacement of fuse and battery.

Do not try to repair the meter unless you are an experienced maintenance person with the relevant calibration, performance testing and maintenance data.

5.1 General maintenance

⚠ To avoid electrical shock or damage to the meter, don't wet the inner surfaces of the meter. Before opening shell or battery cover, you should remove the connecting cable between the test probe and the input signal.

Regularly clean the meter shell with damp cloth and a small amount of detergent. Do not use abrasives or chemical solvents.

If you make input socket dirty or wet, it may affect the readings.


To clean input socket:

- Turn off the meter, and pull out all test probes from the input socket.
- Remove all dirt from the socket.
- Apply detergent or lubricant (such as WD-40) to a new cotton ball.
- Clean each socket with a cotton ball. Lubricant can prevent contamination related with moisture on the socket.

5.2 Replacing the Battery and Fuse

⚠ WARNING

To avoid electrical shock or personal injury, before opening the battery cover to replace battery, you should turn the meter off and make sure that the test probe is disconnected from the measurement circuit.

To avoid wrong readings, electric shock or personal injury, when “” appears on the meter display, replace the battery immediately.

Use only a fuse with specified amperage, fusing rated value, voltage rated value and fusing speed (F1:FF 600mA H 1000V, F2:FF 10A H 1000V)

Please follow below steps to replace battery or fuse:

- 5.2.1. Turn off the power supply of the meter.
- 5.2.2. Pull out all test probes from the input socket.
- 5.2.3. Loosen two screws on the fixed battery cover with screwdriver.
- 5.2.4. Remove the battery cover.
- 5.2.5. Remove the old battery or damaged fuse.
- 5.2.6. Replace with a new battery with 9V (NEDA 1604, 6F22 or 006P) or a new fuse.
- 5.2.7. Replace the battery cover and tighten the screws.

Note:

Pay attention to the polarity of the battery to avoid damage to the meter

5.3 Replacing Test Probe

If insulation on leads is damaged, replace it.

⚠ WARNING

If the test leads need to be replaced, you must use a new one which should meet EN 61010-031 standard, rated CAT II 1000V / CAT III 600V, 10A or better.



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