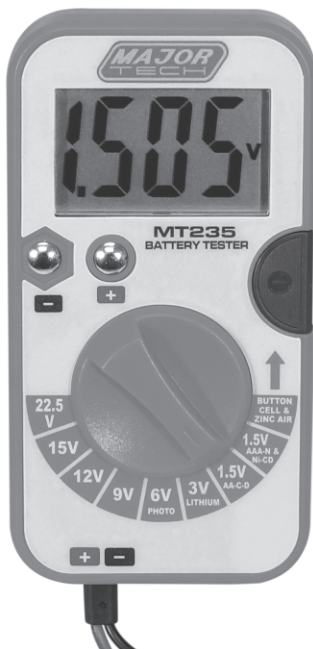




## INSTRUCTION MANUAL

**MT235**

**BATTERY TESTER**



## 1. INTRODUCTION

This tester measures all kinds of batteries. The user can choose three measurement methods according to the battery shape and read the voltage on the LCD display. Proper use and care of this tester will provide many years of reliable service.

## 2. SAFETY INFORMATION

Please read this manual carefully and pay attention to related safe working standards before using this tester. Protection provided by the instrument will be impaired if used in a manner not specified by the manufacturer.



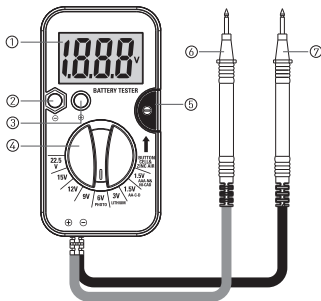
### WARNING

- This is not a high voltage test instrument (max. 30V DC). Under no circumstances should the test leads come in contact with an AC voltage of any value. Test only batteries for which the designated setting of the battery selector indicates. Improper use of this battery tester can result in severe damage to the meter or personal injury.
- Do not use this tester for measurements within measurement categories II, III and IV.

**CAUTION:** Read, understand and follow the safety rules and operating instructions of this manual before you use the product. Protection provided by the instrument will be impaired if used in a manner not specified by the manufacturer.

## 3. PRODUCT DESCRIPTION

1. LCD Display
2. Negative Contact Point
3. Positive Contact Point
4. Battery Selector
5. Push Button
6. Red Test Lead
7. Black Test Lead



## 4. SPECIFICATIONS

### 4.1. GENERAL SPECIFICATIONS

Operating Altitude	2000 meters
Operating Environment	0 to 40°C (32 to 104°F) at <70%RH
Storage Environment	-10 to 50°C (14 to 122°F) at <80%RH
Size	60.2 x 28.7 x 115.2mm
Weight	104g

## 4.2. MINIMUM VOLTAGE SPECIFICATIONS

Battery Type	Load Current	Min Voltage for Good Indication
Button Cell 1.5V	50mA	$1.125V \pm 0.09V$
AAA-N-1.5V	50mA	$1.125V \pm 0.09V$
AA-C-D-1.5V	150mA	$1.125V \pm 0.09V$
Lithium 3V	100mA	$2.25V \pm 0.18V$
6V	10mA	$4.5V \pm 0.36V$
9V	10mA	$6.75V \pm 0.54V$
12V	10mA	$9V \pm 0.72V$
15V	10mA	$11.25V \pm 0.9V$
22.5V	10mA	$16.875V \pm 1.35V$

## 5. OPERATION

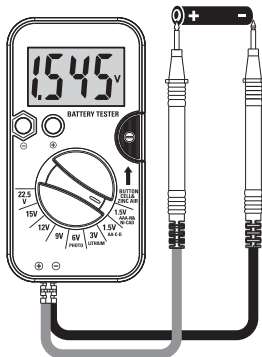
### 5.1. TESTING A BATTERY

**NOTICE:** Always identify the battery polarity before testing.

**NOTICE:** To avoid excessive drain on the battery under test, do not press the push button **(5)** down when using the test leads or short the test leads across one another when pressing the button **(5)**.

**NOTICE:** Do not allow the test leads to touch the metal positive and negative contact points on the tester during any battery test.

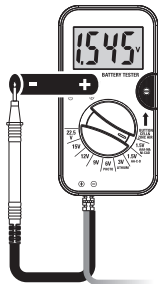
1. Set the battery selector **(4)** to the type of battery you are testing. If the battery selector **(4)** is incorrectly positioned, an inaccurate test will result and may damage the tester and cause excessive drain on the battery.
2. Touch the red test lead **(6)** to the positive (+) terminal on the battery and the black test lead **(7)** to the negative (-) terminal on the battery.
3. Observe the battery condition on the LCD display **(1)**.
4. When testing 9V rectangular batteries, position the positive (+) and negative (-) battery terminals directly onto the positive and negative contact points **(3 and 2)**, then observe the battery condition on the LCD display **(1)**.



## 5.2. ALTERNATING TESTING METHODS

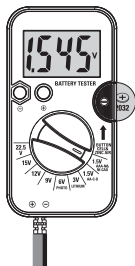
Depending on the battery type, it may be easier to use the positive and negative contact points **(3 and 2)** on the tester instead of touching both test leads to the positive and negative terminals on a battery.

1. Position the positive (+) terminal of the battery on the positive contact point **(3)**. Then touch the black test lead **(7)** to the negative (-) terminals of the battery and observe the battery condition on the LCD display **(1)**.
2. The reverse can be done by positioning the negative (-) terminal of the battery on the negative contact point **(2)** and touching the red test lead **(6)** to the positive (+) terminal on the battery.



## 5.3. Testing Button Cell Batteries

1. Inserting the battery, negative (-) side up, in the slot below the push button **(5)**.
2. Press down on the push button **(5)** to make contact with the positive and negative terminals on the battery.
3. Read the battery condition on the LCD display **(1)**.



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