

# Open Circuit Voltage Test

## User Manual

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# **1. INTRODUCTION**

## **1.1. WHEN THE TEST WILL TAKE PLACE**

The Open Circuit Voltage (OCV) Measurement will be done three times. Once before the vibration test, once between the two tests (after vibration, before vacuum), and once after the vacuum test.

## **1.2. IMPORTANCE**

You need to perform this test to measure the voltage of a battery or other electrical source when no current is flowing.

# **2. EQUIPMENT**

- Multimeter : Used to measure voltage before and after the test
- Battery : Renata ICP543759PMT

# **3. PROCEDURE**

## **3.1. SET UP**

- For most accurate readings, the batteries must remain idle (no charging, no discharging) for at least 8 hours, preferably 24 hours
- Disconnect all loads from the battery
  - Make sure there is nothing connected to the negative (black) and positive (red) terminals
- Set the multimeter to DC Voltage

## **3.2. OPEN CIRCUIT VOLTAGE TESTING**

- Take the positive lead of the multimeter and connect it to the positive lead of the battery (red)
- Take the negative lead of the multimeter and connect it to the negative lead of the battery (black)

The image that is figure 1, is a better representation. Disregard the white lead, it is a temperature sensor and will not be used with the multimeter

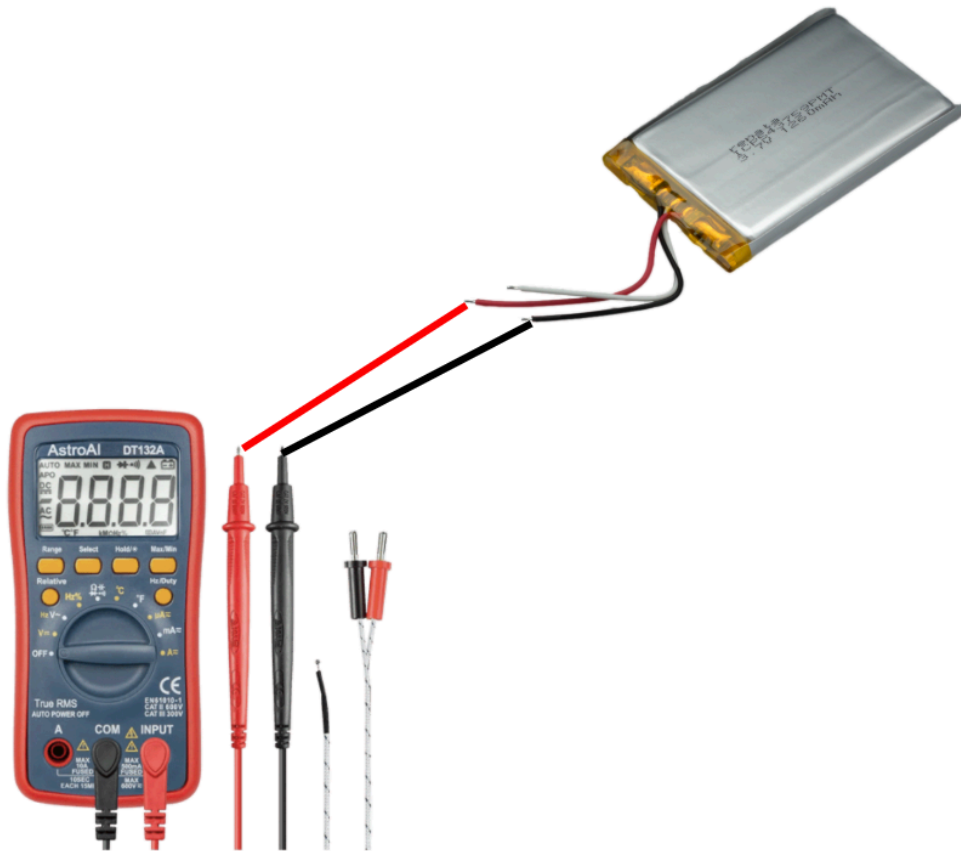


Figure 1

## 4. RESULT

- The result should be read on the multimeter. If the battery was left idle, had no charge/load connected to it, and was read on DC voltage then you should have the correct Open Circuit Voltage