

The 8 Ball Mark II

1.0 to 1.5amp Load Checker for 7.4 & 12.6 VDC
Lithium Ion and Lithium Polymer batteries only

FROMECO

INSTRUCTIONS

Step 1:

Plug 8 Ball Load Checker into 7.4 to 12.6 Lithium Ion "Relions" or Lithium Polymer batteries.

Step 2:

Once you plug in your battery you see the 8 Ball Mark II quickly flash FROMECO 8 BALL, and then flash NO LOAD: XX.XX V for one second. (X's are the actual reading of your battery)

Step 3:

Your 8 Ball will now begin its test. . The screen will look like this: "LOAD 1A V=XX.XX" You will need to watch this screen throughout the entire load check, **this will last for 7 seconds**. The Voltage displayed during the load checks are real time. On a healthy battery your voltage should drop for a few seconds and then stabilize. It is this stabilized number that is your final load check. Example: Plug a 2600 Relion in, voltage under 0 load is 7.74V or "NO LOAD 7.74 V". Under a 1amp load this Voltage should drop to 7.35-7.40 or "LOAD 1A 7.40 V". This is the batteries 1 amp load voltage.

Step 4:

Your 8 Ball will now transition into the NO LOAD state. In this state the 8 Ball will be reading Voltage Real time. In this state the 8 ball can be used as a voltage meter to adjust regulators.

Low Voltage:

The 8 Ball unit is designed to alarm at a Voltage of 7.0VDC under a 1.0amp load. Your 8 Ball indicates an alarm Voltage by flashing "NO-FLY" < XX.XX V. The screen will stop flashing after 2 seconds and start reading static voltage again like in **step 4**. However the NO FLY will stay at the top of the screen and NOT be cleared until the battery is unplugged from the 8 Ball unit. 8 Ball can still be used as a voltage measuring device in the NO FLY warning post load check phase.

Fromeco recommends that Pilots stop flying and start charging when batteries read 7.0 Volts DC under a 1.0amp.

Reading Voltage with the 8Ball load checker:

The 8 Ball was designed to read Voltage real time to allow Fromeco Pilots to adjust their Fromeco adjustable regulators. Once the 8 Ball goes through all of its load checking steps the last screen will display "NO LOAD XX.XX V" this voltage is real time. When using an 8 Ball to adjust regulator voltage, you will most likely get a low voltage alarm unless your regulator is set over 7.0VDC. Once all the alarm indications have cleared, the last screen will read "NO-FLY XX.XX V" it is this voltage that is real time and can be used to adjust regulators.

The Fromeco 8 Ball is good for reading Voltages down to 3.5VDC. However, the NO FLY alarms will always come in at 7.0VDC.

Please direct questions and comments to info@fromeco.org, or visit our website at www.fromeco.org

Fromeco Scale Avionics LLC® warrants that at the time of shipment and for a period of ninety (90) days thereafter the Product (Fromeco Scale Avionics LLC® 8 Ball Mark II Load Checker) shall conform to the functional description contained herein, and shall be free from defects in workmanship. If any defect within this warranty appears, the Purchaser shall notify FROMECO immediately. Buyer's sole and exclusive remedy in the event of a defect is expressly limited to (at Fromeco Scale Avionics LLC® sole election) correction of the defect by replacement or issuance of credit in the amount of the price of the Product, for any Product which proves defective within the above warranty. The foregoing warranties are the sole and exclusive warranties made by Fromeco Scale Avionics LLC®. THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. In no event shall Fromeco Scale Avionics LLC® be liable to Purchaser, end user, or any other party or individual for any incidental, special or consequential damages of any nature that are or could be attributable to the product. Fromeco Scale Avionics LLC® maximum liability shall not exceed the purchase price of the Product under this agreement. Use of the Product by Purchaser shall constitute Purchaser's acceptance of these terms.