

# **BMon U1224** **Battery Monitoring System**

# BazzTec

## **SETUP - Device learns the system**

**BMon is a universal battery monitoring device. This device facilitates testing the capacity of a group of batteries or a single battery over a broad range of voltages and capacities.**

## **Calibrating the device**

- 🔌 The device independently learns the particulars of the batteries operating the system.
- 🔌 The process should be conducted with new fully charged batteries and you should ensure that the connectors of the battery cables are clean and well attached.
- 🔌 The data that the device collects will constitute an optimal reference point for an identical array of batteries and any future measurement will be related to accordingly.
- 🔌 If the batteries are replaced by a model different from the existing one, the device must be recalibrated.
- ⚠️ **Caution – incorrect connection of the BMon clips to the battery will incinerate the device!**



### Calibration setup:

1. Disconnect or switch off the charger.
2. It is preferable to wait for an hour to allow the battery data to stabilize.
3. Connect the device directly to the battery terminals
  - Release the negative (-) polarity nut of the battery.
  - Attach the device's black cable (-) and firmly attach the battery's nut.
  - Attach the red cable to the battery's positive terminal in the same way.
4. There are two states of initializing:
  - a. Uncalibrated device, green indicator is extinguished, 3 red indicators are lit up, calibration can begin at any time.
  - b. Device that has been calibrated, green indicator is lit up, the red indicator will flash at the same time for two minutes. Only during this time can the calibration process begin. If calibration is not conducted the device will continue to function with the definitions stored within it.

### **To enter learning mode, press the TEST button for 10 seconds.**

When the green indicator begins to flash, release the TEST button.

5. The device will conduct a self-learning process saving the data for 5 – 10 minutes. During the testing the four indicators will light up in sequence until the conclusion of the test. At the conclusion of the process the green indicator will be lit up constantly, the charging indicator will be lit (since the charger is not connected) and the other indicators will be extinguished.  
\*If there is a fault of any kind a red indicator will light up accordingly.
6. The charger should be reconnected, or the device should be switched on, if it was switched off.
7. Record the programming data according to the data of the batteries that served for calibration.
8. At the conclusion of the setup process the device can be disconnected and installed somewhere else with identical properties. The data will be stored in the device's memory.

## **Technical Data**

System voltage that can be tested	12V / 24V
Capacity range for the battery array	50AH - 750AH
Minimal current for single battery at system voltage	12V-150A 24V-300A
Types of batteries	Lead acid. Gel.
Output to the transmission of a warning	Dry contact SMS broadcast (optional)
Work temperature	-30°C - 80°C
Test frequency	Every 24 hours
Device dimensions (mm)	54 X 74 X 164 mm
Weight (grams)	450 g



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