BMon R-5 12V
Battery Monitoring System

BazzTec
Battery Capacity Tester

PERFORMING DEVICE CALIBERATION- SETUP

The BMon is a universal battery monitoring device. It allows testing of a single battery or a battery group across a wide capacity range.

DEVICE CALIBERATION

- The device automatically learns the battery data used by the system.
- The process must be performed with new and fully charged batteries, ensuring that the battery cable connections are clean and securely fastened.
- The data collected by the device will serve as the optimal reference point for this battery setup, and all future measurements will be based on it.
- If the batteries are replaced with a different model, the device must be recalibrated.

Calibration Process (Setup):

1. **Disconnect or turn off the charger.**
2. **It is recommended to wait at least 5 minutes** to allow the battery data to stabilize.
3. **Install the device into the system** according to the **installation instructions (steps 1-8)** and continue according to the **startup indication** as detailed in the next section.
4. There are **two startup states:**
   A. Device not yet calibrated – The **green LED is off**, and **three red LEDs are on**. Calibration can be started at any time.
   B. Device already calibrated – The **green LED will turn on**, and the **three red LEDs will blink together for two minutes**.
   - **During this time**, a new calibration can be initiated, replacing the previously stored data.
   - **If no calibration is performed,** the device will operate with the **previously saved settings** from the last calibration.

To enter Learning Mode, press and hold the TEST button until the green LED turns off (approximately 10 seconds), then release.
5. The device will perform a **learning and data-saving process**, which takes approximately **7 minutes**.

- During this process, **all four LEDs will cycle on and off**.
- Once the process is complete, the **green LED will turn on**, the **red charging fault LED will light up** (since no charger is connected), and the other LEDs will remain off.
- *If a fault occurs, the corresponding red LED will light up.*

TESTלחצן

The TEST button is multi-functional, and its role varies depending on the device's operational state.

The TEST button is used by the installer to put the device into calibration mode, as explained on the left side.
The TEST button can also reset Modbus communication settings to default values if needed.
The TEST button allows for manual capacity testing, without waiting for the next 24-hour test cycle.
Additionally, this process briefly opens and closes the dry contact outputs one by one for a few seconds to verify connections.

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6. Reconnect the charger or turn on the switch if it was turned off.
7. After completing the **SETUP process**, the device can be disconnected and installed in another location **with identical characteristics**. The stored data will remain in the device's memory.
8. To perform **recalibration** (in case of battery replacement or transferring the device to a different system), disconnect the device and reconnect it to the batteries. After reconnection, you will have **2 minutes to initiate a new calibration process**.