



This year we thought we would give the 5 hour a bit of a BUZZ!

Following its success in the BRCA LMH Endurance series they are introducing the LiPo safety voltage buzzer setup into our MiBi 5 hour Endurance event. For this year (2025) this will be voluntary but will become a mandatory regulation for our 2026 event.

Below is some useful information about this system:

There are several different units available, but basically, they can be set to detect when a cell or cells drop below a set voltage and once this occurs, they emit a loud tone that is a signal to return to the pitting area for the battery to be changed.

The one we would recommend is the Lipo Battery Monitor Alarm Tester Checker Low Voltage Buzzer Alarm with LED Indicator as shown below?

This is good as it also displays the total voltage as well as the voltage of each cell.

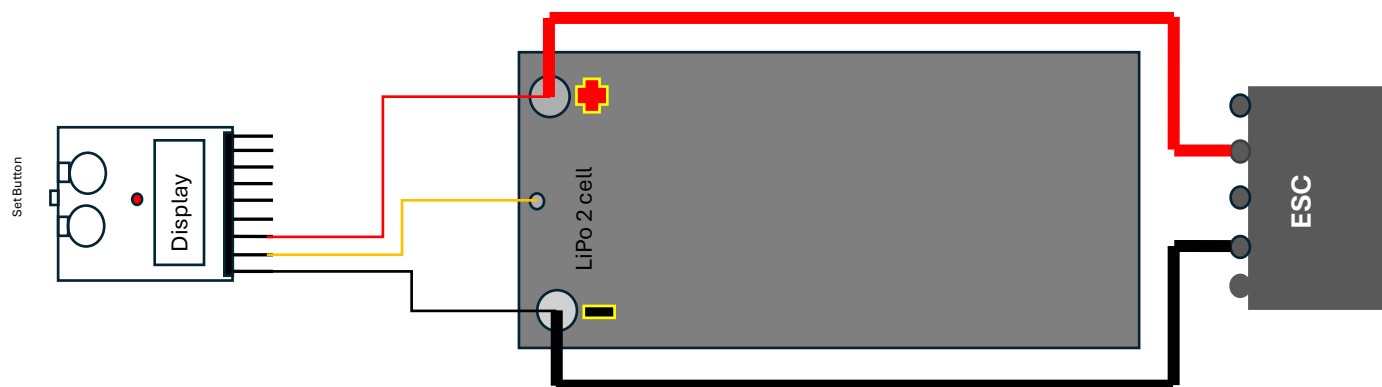


The installation can be done in a couple of ways. You can fix a unit to each battery you intend to use. A little more wiring must be done, and you would need a unit for each battery used, however once done then you just plug in the battery and off you go.

Another way is to have one unit fitted to the car and then you wire to the + & - plugs the connect the battery in the usual way, however, you would also need to plug an additional wire into the 2mm center tap on the battery. You can also wire the unit so it would just detect the total voltage rather than each cell, whilst this works it would not sound the buzzer if one cell's voltage dropped but the second cell kept the overall voltage above the alarm level, this could in some circumstances result in a damaged battery that could be dangerous as one cell could drop below a safe voltage!

A typical **LiPo battery monitor/alarm** consists of a small circuit that monitors the voltage of each cell in a LiPo battery pack and sounds a buzzer if any cell drops below a safe threshold (usually around **3.3V per cell**).

Below are some pictures on some units and a diagram and picture showing how to wire the above units. As mentioned, there are several makes available but whatever you choose to fit, they **MUST** have an audible alarm.



Another make is the Prolux 1416 Alarm.

This is apparently a simpler setup showing it plugging into the receiver or ESC battery channel, however, looking at the instructions it still requires connection to the battery as the RX will already be below the 6.6v detection level, this type only monitors the total pack voltage and not the individual cells. Also, we found it to be a lot quieter and with the noise on a race day this may not be the best idea. However, this is your choice, our advice is to talk to others and have a look at the different types available.



The buzzer units are available from many places including our sponsors **Make it Build it (MiBi)** (ETRONIX 1-8S LIPO BATTERY VOLTAGE METER W/ALARM) and other model shops for just a few pounds.

The above is meant as a guide only, should you require any additional information please contact the club.