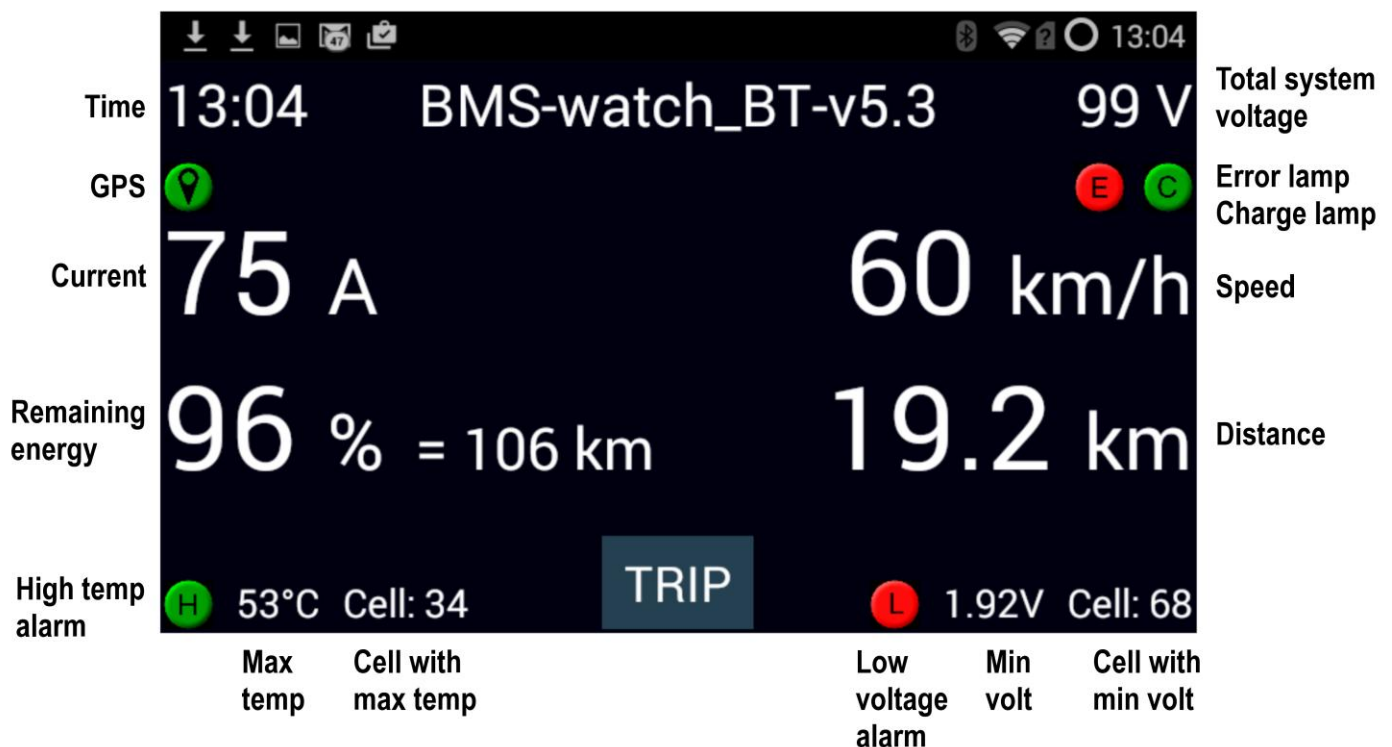


## BMS-watch description

### General

BMS-watch is an Android app for monitoring the BMS123 battery management system in a vehicle. The app is to be run in a smartphone or a tablet connected to the BMS Bluetooth.

### The user interface



**Error lamp:** On when the app receives error signal from BMS.

**Charge lamp:** When on, indicates that the battery is charging.

**GPS lamp:** When on, indicates that the app is receiving updates from GPS satellites.

**Current:** The current running to or from the battery (negative when charging).

**Remaining energy:** The charge level of the battery. Also shows the maximum driving distance before recharging is needed.

**High temp alarm:** This lamp goes red when the temperature of a cell exceeds the limit.

**Cell with highest temp:** Always shows the highest cell temperature in the battery, and the number of that cell.

**Speed:** Current vehicle speed.

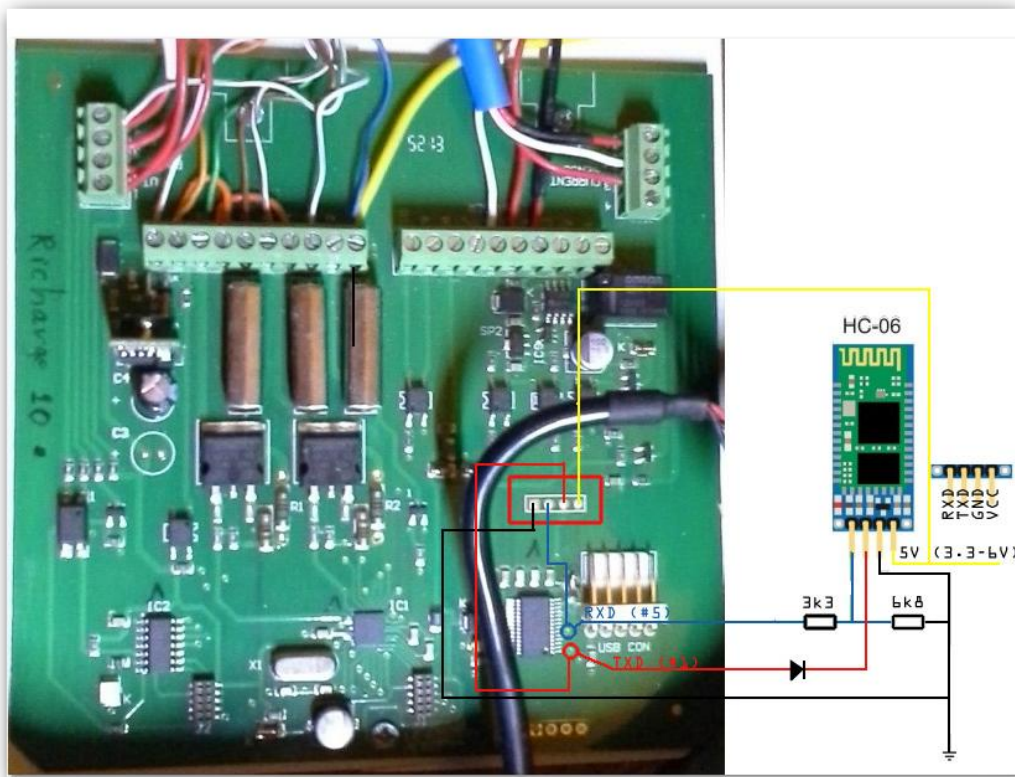
**Distance:** The distance travelled since the last time the **Trip button** was pressed.

**Low voltage alarm:** Goes red when the voltage of some cell goes below the limit.

**Cell with lowest voltage:** Always shows the lowest cell voltage in the battery, and the number of that cell

## Bluetooth

Bluetooth communication is added to the BMS123 through the connection of a HC-06 unit according to the following picture:



Before connection the HC-06, change its baud rate to 2400. The app requires that the HC-06 unit is named “HC-06”.

The android smartphone or pad must be paired with the HC-06 before the BMS-watch app can be used.