**Questionnaire Regarding JK BMS**

This document is intended to gather information and seek clarifications regarding specific issues and suggestions related to the JK BMS devices. Kindly forward this questionnaire to the device manufacturer for further insights.

**1. Issue with Last 3 Cell Voltages**

As per the JK BMS communication protocol document, the data identification code 0x79 provides pool voltage (individual cell voltages). However, I am facing the following issue:

* My battery has 20 cells, but the last 3 cell voltages are not being transmitted by the BMS through the RS485 (UART) interface.
* The raw data for the last three cells consistently shows 0, although these values are correctly displayed on the JK BMS mobile app.
* The issue persists across multiple JK BMS models tested.

**Questions/Suggestions:**

1. Is there any specific setting or configuration needed to enable the transmission of all cell voltages through the RS485 interface?
2. Could this be a firmware-related issue? If so, are there updates or patches available to address this?
3. Are there additional commands or protocols we should use to retrieve these values?

**2. Inaccuracy in Current Measurement**

* On one JK BMS model, no current data is being transmitted through the RS485 interface.
* On another model, the current data is available but not accurate compared to actual measurements.

**Questions/Suggestions:**

1. Could the inaccuracy be related to calibration? If so, how can the current sensor be calibrated?
2. Are there known limitations or issues with the accuracy of current readings in the JK BMS? If yes, are there any planned improvements?
3. Is there a recommended troubleshooting method to identify the cause of missing or inaccurate current data?

**3. Extracting Remaining Battery Capacity**

* We want to extract the remaining battery capacity directly from the JK BMS to reduce computational load on our system.
* The JK BMS datasheet provides details for extracting actual battery capacity and State of Charge (SoC) but does not mention how to obtain the remaining battery capacity.
* The remaining battery capacity is displayed on the JK BMS mobile app.

**Questions/Suggestions:**

1. Can the remaining battery capacity data be extracted through RS485 or UART communication? If yes, which data identification code or command should be used?
2. If direct extraction is not currently supported, are there any plans to include this feature in future firmware updates?
3. Can the manufacturer provide any custom commands or documentation to address this need?