Meeting protocol

Date: 13. November 2013

Place: LEM, Plan-les-Ouates, Geneva

Contents of the meeting:

* Introduction to LEMs products and measuring principles
* Defining the parameters to measure
* Defining the contents of the technical proposal
* Defining the responsibilities for the material providing for both parties

Meeting results:

* LEM has already performed linearity and gain measurements at their new fluxgate sensor CAB300.
* Now, Charge (Ah) measurements need to be done.
* There will always be at least two sensors measured at one time (the reference sensor plus one to three additional sensors).
* The sampling rates will have to be evaluated. The reference sensor should be sampled as fast as possible. The CAN-Bus-sampling time will be about 10ms. It is to find out if 20ms work as well. TODO: no synchronisation, right?
* Three channels will be used, that provides up to 600A.
* LEM will provide a reference sensor ITL900, a test profile file and the details for the CAN-protocol of the current sensor.
* To calculate the total charge, the backward Euler integration can be used. It is to check if the trapezoidal integration brings better results.
* The technical proposal file should contain:
  + if it is possible for BFH to measure sensors with the following interfaces:
    - CAN
    - Analogue
    - LIN
    - PWM
  + the possibilities of the temperature chamber
  + details about the cable diameter of the test facility (important for the reference sensor)