

Bachelor's Thesis

Automation of a breakout box for the Chinese DC charging standard

An easy way to test DC charging is to use a breakout box which is connected between the charging station and the vehicle. For the Chinese charging standard, the electrical signal lines can be interrupted and the CAN communication can be manipulated via a gateway simulation. In the course of several student theses a breakout box was developed, which makes it possible to interrupt the signal lines by relays, to apply voltage values and to measure these. The task of this bachelor thesis is to implement a control of the automated breakout in CANoe and to develop test cases to secure the DC charging by automatically controlling the relays and measuring points.

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