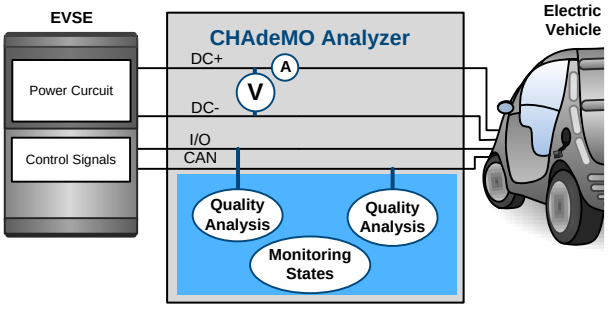
CHAdeMO Analyzer / Simulator

for DC charging of Electric-Vehicles – Analysis according to CHAdeMO

Developments for e-mobility presents new challenges for vehicle- and charging-system manufacturers. The quiet young standard CHAdeMO describes the requirements on DC-charging-systems, electrical waveforms and the communication to control the charging process. By combining electric vehicles and charging systems of various manufacturer, different system-tolerances and disturbing influences may occur. The causes of charge interruptions are very difficult to locate due to the long charging.

The comemso CHAdeMO Analyzer / Simulator measures and verifies both the communication and the load circuit on standard-conformity over the complete duration of charging and records all deviations.
Thus causes of charge interruptions can not only be identified but also causalities of events can be represented and visualized.

Verification Charging



Highlights

Monitoring:

- Communication analysis according to CHAdeMO Rev. 1.x
- Synchronous DC Voltage and Current measurement, measurement data over CAN available
- Quality Analysis of CAN physical layer
- Quality Analysis of communication circuit (12V signals)
- Protocol analysis:
  - timings of communication, signals and charging
  - communication and signal order

Gateway with Manipulation:

- Manipulation of CAN data
- Manipulation voltage of 12V signals (communication circuit) to 5V...15V

EV test:

- Full configurable EV tests

Charger test:

- Full configurable Charger tests

Graphical User Interface (GUI):

- Ready project with comfortable panels for Vector CANalyzer

DC Load Circuit:

- Connectors for 500V/120A
- Measurement up to 800V/200A

Other:

- Robust casing for mobile outdoor use - IP67
- Supply Power 100..230V

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your partner for complex embedded solutions

CHAdeMO Analyzer / Simulator

Use Cases

Verification Charging (Man-in-the-Middle)

Monitoring

Gateway with Manipulation

EV Test

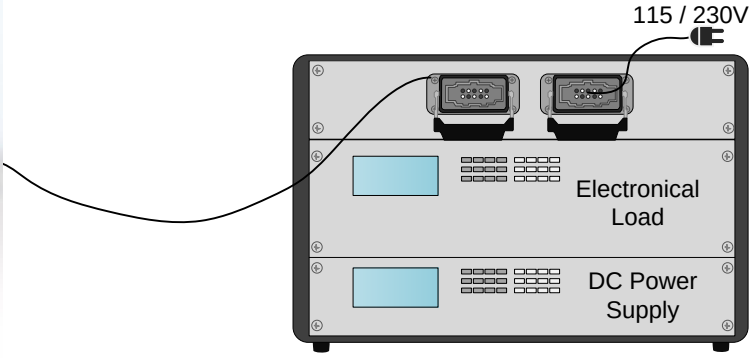
Charger Test

DC Power Supply:

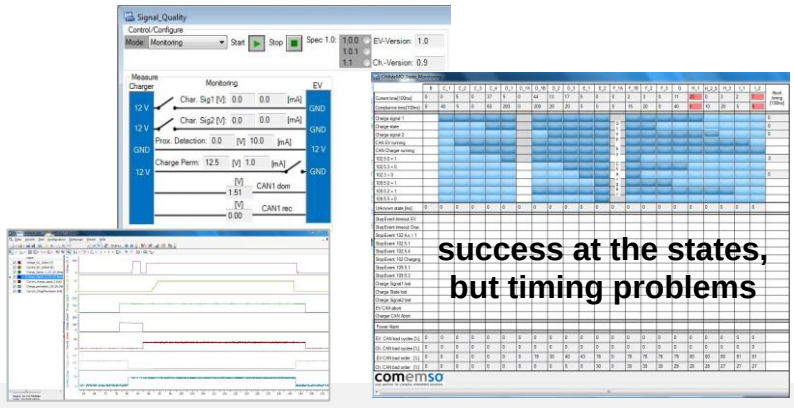
- Controllable over CAN
- Integrated interface by comemso

DC Load:

- Controllable over CAN
- Integrated interface by comemso



Monitoring Charging States, Signal Quality, etc. over CAN interface



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