DC China Analyzer / Simulator

for DC charging of electric vehicles – analysis according to the GB/T standard



Features

Monitoring:

- o communication analysis according to GB/T 27930-2015
- o synchronous measurement of:
 - DC voltage and current
 - auxiliary power supply voltage and current
- o quality analysis of CAN physical layer
- o connection confirmation
- o temperature measurement of DC connectors
- protocol analysis:
 - timings of communication and charging - communication order
- o All measurement and analysis data is provided over CAN

Gateway with manipulation:

o manipulation of CAN data

EV test:

o Standard Charger simulation

Charger test:

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Standard EV simulation

New challenges...

Advancing developments in e-mobility make vehicle and charging-system manufacturers meet new challenges. For example the Chinese standard GB/T describes the requirements on DC-charging-systems, electrical circuits and the communication protocol to control the charging process. By combining electric vehicles and charging systems of various manufacturer, different system-tolerances and disturbing influences may occur. The reasons of charge interruptions are very difficult to locate due to the long charging process.

...meet new solutions

The comemso DC China Analyzer / Simulator measures and verifies both - communication and load circuit - on standard-conformity over the complete duration of charging and captures all deviations. In this way it's possible to identify non-conformity of charging and get the reasons for charge interruptions.



Graphical user interface (GUI):

 ready project with comfortable panels for Vector CANalyzer / Vector CANoe. Recommended Option: SAE J1939-21 CAN transport protocol

DC power circuit:

- \circ connectors for 750V / 125A
- Measurement up to 1000V / 350A

Auxiliary power supply:

- connectors for 30V / 20A
- measurement up to 30V / 20A

CC1/CC2 signals:

Measurement from 0V to 30V



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Use cases



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Monitoring



The DC China Analyzer / Simulator supports communication between electric vehicle and charger according to the standards of GB/T 27930-2011 and GB/T 27930-2015, including the support of a simplified SAE J1939-21 CAN transport protocol to handle CAN messages with a DLC up to 512 bytes.





your partner for complex embedded solutions