

EVCC-P

ELECTRIC VEHICLE COMMUNICATION CONTROLLER FOR PANTOGRAPH

Sensata is presenting the latest generation Controller for Pantograph charging Electric Vehicles to its extensive Electrification Portfolio. The EVCC-P (Electric Vehicle Communication Controller for Pantograph) is a solution targeted at commercial vehicles that supports CCS2 inlets.

The EVCC-P is a standard ECU for 24V environments. It realizes electrical charging according to OppCharge V1.3.0 in combination with an additional CAN-WiFi-Gateway for communication with the charging infrastructure. In addition, charging with a roof-mounted pantograph is supported. The hardware is the VC36PLC-24 with an integrated flash bootloader. EVCC-P includes a modern MICROSAR stack with all relevant application modules to realize electrical charging communication.

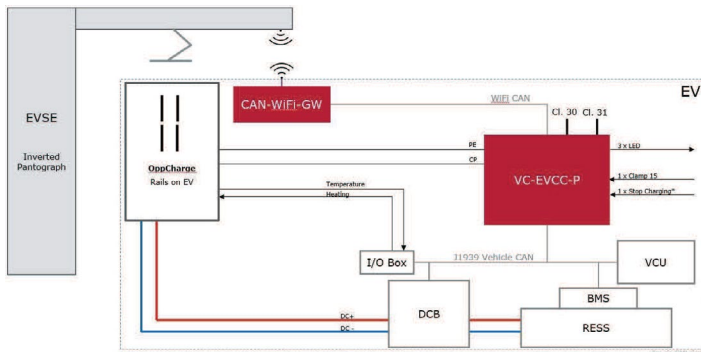
The Sensata's EVCC-P is designed to be integrated into the vehicle with either OppCharge Architectures (Rails on EV) or Roof-Mounted Pantograph on EV Architectures:



SPECIFICATIONS

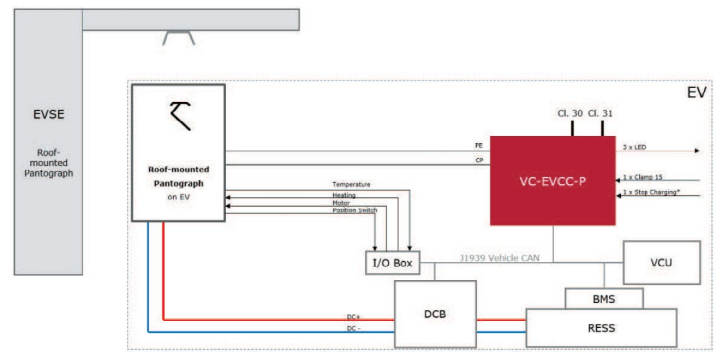
IEC 61851	Supported
DIN 70121	Supported
ISO 15118-2	Supported excl. Charging Schedules & PnC
SAE J3068	Not supported
ISO 26262	Only QM development
Supported Inlets	Phoenix 12V locking
CCS Combo 1	Prototyping
CCS Combo 2	Series

OppCharge Architecture



Red components are in focus of EVCC-P system context and are provided by Sensata. Non-red components, e.g. CAN-I/O Interface, have to be supplied alternatively in case Temperature or Heater control shall be implemented.

Roof-Mounted Pantograph Architecture



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