

Simatic charge controller and calibration kit optimize charging technology for eMobility

- **Plug & play solution comprising Simatic ET 200SP TM ECC PL ST and TM ECC CCS calibration kit for convenient charge controller calibration**
- **Reduced engineering effort and simplified commissioning of DC fast charging systems for electric vehicles**
- **Stable charging process and up to 50 percent less servicing required to remedy charging interruptions**

Siemens offers charging system suppliers a new plug & play solution, which for the first time enables calibration of the Powerline signal level in line with CCS (Combined Charging System) CharIN Association Implementation Guidelines for the conductive charging of electric vehicles. The solution comprises the Simatic ET 200SP TM ECC PL ST charge controller and the TM ECC CCS calibration kit. When calibrating the signal quality of a DC CCS charge controller using the Siemens solution, there is no need for a spectrum analyzer, which makes the process quicker and easier.

Manufacturers of charging stations can also save engineering effort as well as time and costs during commissioning and can reduce servicing to remedy charging interruptions by up to 50 percent. Engineering is in the TIA (Totally Integrated Automation) Portal.

When engineering and commissioning charging systems, cable lengths or different material types can lead to attenuation of the signal strength, for example. This often has a negative effect on adherence to standardized Powerline frequency ranges. This results in charging interruptions due to faulty communication between the electric vehicle and the charge controller.

Using the calibration kit, the charging system is calibrated as per CharIN Association recommendations to a transmission power of 75 dBm/Hz with a tolerance of +/- 3dB, which minimizes EMC (electromagnetic compatibility) problems. This ensures robust communication between the vehicle and the charging station.

The CharIN Association is an organization dedicated to the promotion of a global standard charging system for electric vehicles.



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This press release and a press photo are available at <https://sie.ag/3wYnmeg>

You can find additional information on Simatic ET 200SP TM ECC PL at www.siemens.com/ecc or in the [Siemens Industry Mall](#).

More information about the Calibration Kit TM ECC CCS is available at [Siemens Industry Mall](#).

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