



The new PCE-EVSE 300 from PCE Instruments - an adaptor for testing electric charging stations of charging mode 3

Electromobility is an important factor in the energy transition and should also help to balance out fluctuations in the renewable energy sources of wind and sun in the future. One of the decisive prerequisites for the acceptance of electric vehicles is a well-developed charging infrastructure. The

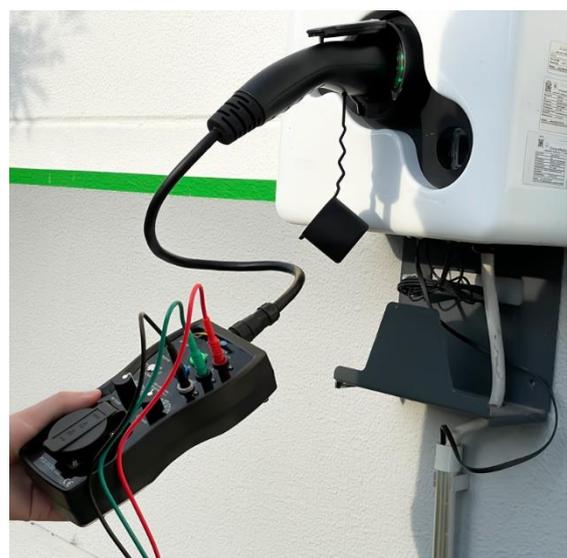
charging facilities (EVSE) must not only be available in sufficient quantity and easily accessible for users but also be functional and safe.



The new EVSE measuring device PCE-EVSE 300 from PCE Instruments, together with a suitable installation tester, enables the electrical safety and correct functioning of charging stations of charging mode 3 to be checked. It does not matter whether the charging station is equipped with a plug connection or a permanently installed charging cable. Using the two adaptor cables for type 1 and type 2 charging connections included in the scope of delivery, the PCE-EVSE 300 can be connected to electric charging stations with single-phase or three-

phase alternating current. Before the actual measurements, the PE pre-test allows the protective conductor to be checked quickly and easily by a keystroke.

On the front of the instrument, there are five sockets at the top right to connect the installation tester for measurements. Next to the sockets for L1, L2 and L3, light-emitting diodes indicate whether voltage is present at these phases. The trigger switches for the CP error, the PE error and for the PE pre-test are located at the top left. The two rotary switches in the middle can be used to select different vehicle charging stages and the current for the charging cable. In the lower area, a shockproof socket offers the possibility to connect an external load for the counter start-up test. On the top of the PCE-EVSE 300, an oscilloscope can also be connected to evaluate the PWM signal transmitted via the CP connection.



- EVSE measuring device for testing charging stations
- with charging cable plug type 1 and type 2
- PE pre-test
- phase display for L1, L2, L3
- connection for single-phase or three-phase installation testers
- connection for an oscilloscope for evaluating the CP signal
- socket for connecting external loads for measuring purposes
- simulation of PE error and CP error by a keystroke
- PP test, simulation of different charging cables
- CP test, simulation of different vehicle charging stages

The PCE-EVSE 300 from PCE Instruments is a practical adaptor for carrying out safety and functional tests on electrical charging stations of charging mode 3, using common installation testers. This includes the measurement of the earthing system, the protective conductor, the insulation resistances, the RCD, the mains impedance, the loop impedance and the rotary field direction.

More information can be found here:

https://www.pce-instruments.com/english/measuring-instruments/test-meters/evse-measuring-device-evse-tester-kat_163062.htm

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