SPEKTER



Charging Station Test Adapter



Fixed Type 2 connector

CST-222

The CST-222 is a compact and easy-to-use device for testing EV charging stations. It can perform functional tests on its own and no extra equipment needed. For full safety testing, you can connect it to a standard installation tester. It simulates an electric vehicle, charging cable, and common faults to check if the charger meets key standards (IEC/EN 61851-1 and IEC/HD 60364-7-722). With a clear 2.4" graphical LCD display, it shows the most important output values of the EV charger, helping you quickly verify safe and reliable performance.

- Measurement of the EVSE Parameters:
  - MAINS Voltage between L1/N, L2/N, L3/N and N/PE
  - MAINS Voltage Frequency and Three-Phase Sequence
  - Control Pilot Voltage - Positive and Negative
  - Control Pilot Frequency and Duty Cycle
  - Maximum Current (Imax) calculated from Duty Cycle
- LCD Display and “NEXT” Button to switch between MAINS and CP measurements
- +100 working hours with 2x AA Alkaline or NiMH Batteries
- Auto Power Off function to save battery
- CP and PP State Simulation (no batteries needed)
- PE Pre-test (LED indication for voltages >50 V, no batteries needed)
- Schuko Socket for connection of a MAINS Load up to 10 A on L1
- L1, L2, L3, N, PE and CP 4-mm output terminals for connection of a Multifunction Installation Tester or Oscilloscope

EVSE

Available measurements

- Mains voltages between all three phases to neutral conductor (L1 to N, L2 to N and L3 to N) and from neutral conductor to protective earth (N to PE)
- Mains voltage frequency between phases and neutral conductor
- Mains three-phase sequence
- Control pilot signal voltages (positive and negative voltages of square wave signal)
- Control pilot square wave signal frequency and duty cycle
- Maximum charging current, calculated from control pilot square wave signal duty cycle (according to table A.8 of IEC 61851-1:2017)

Output terminals and sockets

- Type 2 connector (EV side)
- L1, L2, L3, N, PE and CP output terminals
- Schuko socket
- Schuko socket protection - Fuse T10A/250V, 5x20 mm
- 2x AA battery compartment

Display and buttons

- 2,4″ LCD display
- On/off and measurement mode switch (MAINS / CP)
- "E" button for CP error simulation
- PE button for PE error simulation
- button for "diode short" fault simulation
- "PE TEST" touch electrode and LED indicator
- "PP state" selection switch
- "CP State" selection switch



SCAN ME!

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EVSE

Subject to technical change without notice!