



Charging Station Digital Multimeter CST-222

Fixed Type 2 connector

The CST-222 is a compact, user-friendly device designed for testing EV charging stations. It performs functional tests without the need for additional equipment such as a multimeter. For complete safety testing, it can be connected to a standard installation tester. By simulating an electric vehicle, charging cable, and common fault conditions, it verifies whether the charger complies with 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 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 (I_{max}) calculated from Duty Cycle
- LCD Display and  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 hazardous voltages on PE, 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 Multifunction Installation Tester or Oscilloscope

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
-  button for On/Off and measurement mode switch (MAINS / CP)
-  button for CP error simulation
-  button for PE error simulation
-  button for "diode short" fault simulation
- "PE PRE-TEST" touch electrode and LED indicator
- "PP state" selection switch
- "CP State" selection switch



SCAN ME!

