SPEKTER

WALL BOX TESTER



Charging Station Test Adapter



Fixed Type 2 connector

CST-122

The CST- 122 Charging Station Test adapter is designed to test functionality and safety of Mode 2 and Mode 3 single-phase and three-phase Electric Vehicle Supply Equipment (EVSE) with fixed cable or direct socket connection. The device can be used in combination with a multifunctional installation tester to perform tests according to the IEC/HD 60364-7-722 standard. Evaluation of measuring results according to IEC 61851-1.

- PE Pretest (LED indicator for voltages >50 V AC/DC)
- Schuko socket for connection of an Installation tester or Mains Load up to 10 A
- L1, L2, L3, N, PE 4-mm output terminals for connection of an Installation tester
- CP 4-mm output terminals for connection of an Osciloscope or Multimeter for CP sygnal analysis
- Robust mechanical construction

EVSE

TECHNICAL SPECIFICATIONS

General Features	
Input voltage	Up to 250V (single phase system) / Up to 480 V (three phase system), 50/60 Hz, max 10 A
Internal power consumption	1 W max.
EV Connector	IEC 62196-2 plug, 16 A (type 2, 7P three-phase), cable length 0.5 m
Housing	Plastic handheld
Housing dimensions (w × h × l)	110 × 45 × 205 mm
Weight	1 kg
Ingress protection class	IP40
CE directive	Low Voltage Directive LVD 2014/35/EU
Safety	EN / IEC 61010-1:2010+A1:2019 (Safety requirements for electrical equipment for measurement, control and laboratory use - General requirements) EN / IEC 61010-2-030:2021 (Safety requirements for electrical equipment for measurement, control and laboratory use - Particular requirements for equipment having testing or measuring circuits)
Working temperature range	-20 ... +40 °C
Storage temperature range	-20 ... +50 °C
Working humidity range	10 ... 85 % relative humidity w/o condensation
Storage humidity range	Up to 90 % relative humidity w/o condensation
Pollution degree	2
Protection class	II (double insulation)
Measurement category	CAT II 300 V
Altitude above sea level	3000 m max.
Functions	
L1, L2 and L3 indicators	Yes (presence of three phase voltages measured to N) - three LEDs
PE Test	Yes (potential presence of dangerous voltage at PE terminal by mistake) - touch electrode and red LED. LED indicator ON at voltage > 50 V AC/DC at PE touch electrode against GND
PP state simulation	Open, 13 A, 20 A, 32 A, 63 A, Error - rotary switch
CP state simulation	A, B, C, D, "E"
CP Error “E”	Yes (CP signal short circuited) - push button
PE Error	Yes (PE interrupted) - push button
Diode Error	Yes (diode short circuited) - push button
Outputs	
L1, L2, L3, N and PE output terminals	4-mm sockets, max. 250/480 V, CAT II 300 V, max. 10 A
CP signal output terminals	4-mm sockets, approx. +/-12 V, under normal conditions
Schuko socket	Max. 250 V, CAT II 300 V, allowed current max. 10 A
Schuko socket protection	Fuse T10A/250V, 5×20 mm
Available measurements by using an Installation Tester	
L1, L2, L3, N and PE terminals	Earth bonding, Loop impedance, Line impedance, RCD Test, Insulation resistance between live terminals L1, L2, L3, N, Insulation resistance between live terminals L1, L2, L3, N and PE
Available measurements by using an Oscilloscope or Multimeter	
CP terminals	CP signal analysis



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Subject to technical change without notice!