

CA 6651

Test adapter for electric vehicle charging stations

Check the safety and operation of the charging station with an installation tester
Simply by simulating the presence of an electric vehicle
With the adapter for interfacing on the socket of a charging station

For your own and your vehicle's safety, check the charging station
regularly according to the applicable standards:

- Test adapter for mode-3 AC vehicle **charging stations equipped with a cable with a type-2 connector**
- Simulation of vehicle status (Control Pilot signal)
- Switching between the different charging currents from 13 to 63 A (Proximity Pilot status)
- Connection to view the status of the signal (Control Pilot signal)
- PE pre-test to check that there is no hazardous voltage present in relation to the earth (PE)
- Presence of phases L1/L2/L3 indicated by 3 LEDs
- Adapter alone for verification of station operation
- Adapter with installation tester to check the electrical safety of the charging station



300 V
CAT II

Measure up



OUR INTERFACE solution for mode-3 AC charging stations equipped with a type-2 connector



- Electrical safety
- Main installation control
- Energy quality and monitoring

VEHICLE STATUS	DESCRIPTION	VOLTAGE OF THE CP ± TERMINAL
A	Electric vehicle not connected, charging station not supplying energy	+/- 12 V 1 kHz
B	Electric vehicle connected, not ready to charge, charging station not supplying energy	+9 V/-12 V 1 kHz
C	Electric vehicle connected, ventilation not necessary, charging station ready to charge	+6 V/-12 V 1 kHz
D	Electric vehicle connected, ventilation necessary, charging station ready to charge	+3 V/-12 V 1 kHz

CA 6651 TEST ADAPTER FOR MODE-3 AC VEHICLE CHARGING STATIONS WITH TYPE-2 CONNECTOR

PE PRE-TEST	Yes with touch electrode
PP simulation	Open NC, 13A, 20A, 32A, 63A - selection via rotary switch
CP status	A, B, C, D
CP/PE error	3 buttons on side for error simulation; CP/PE or diode short-circuit and opening of PE
Earth fault PE error	PP switch position NC
Protection / Admissible overload	600 Vrms

Outputs	
L1/L2/L3/N and PE measurement terminals	230 V single-phase and 400 V three-phase 50 Hz, 5 sockets with 4 mm diameter for connection of the installation tester, equipped with banana plugs
SCHUKO-type mains socket (earth provided by the 2 studs on the inner edges)	Max 250 V, CAT II 300 V, admissible current 10 A (fuse)
CP signal terminal	PWM +/-12V communication protocol

Specifications	
Input voltage	230 V/400 V AC 50/60 Hz 10 A
EVC-20 charging-station socket connector with protective cover	Charging mode 3 adapted to IEC 62196-2 type 2 socket or fixed cable with connector for type 2 vehicle, three-phase
Power socket protection	Fuse T 10 A/250 V

Compatibility with measuring instruments	
CA 6117	Loop earth measurement, 30 mA Type B RCD test (from 6 mA), insulation testing at 500 V and continuity - test report
CA 6131/CA 6133	Earth loop measurement, 30mA RCD test, insulation test at 500V and continuity
HANDSCOPE	PWM waveform display between CP and PE - Measurement on 1 channel of the voltage levels and PWM duty cycle enabling determination of the charging current

GENERAL SPECIFICATIONS	
LEDs	X3 - blue
Electric vehicle standards - Installation	IEC 61851-1 / IEC 60364-7-722
Safety	EN 61010-1, pollution degree 2, CAT II 300V
IP	IP 20 as per IEC 60529
Connection socket	Type 2 32 A 3PH+N+PE type E2201 200/346 V
Dimensions / weight	Casing dimensions 150x83x77 mm / Weight: 850 g



TO ORDER:

CA 6651 ADP VE CABLE TYPE2.....P01191306

Delivered with type II cable in carrying bag with User's Manual in 5 languages



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