

EVCA210**Electric Vehicle Charge-Point Adaptor**

- Suitable for all Mode 3 EV charge points
- Single and three phase EV charge point testing
- Complete with Type 1 and Type 2 connectors
- PE touch voltage pre-test
- PE and CP Error indicators
- Mains socket for simple connection of test instrument

DESCRIPTION

The Megger EVCA210 test adaptor is designed to simulate the connection of an electrical vehicle to a Mode 3 EV charging point under test.

Once the EVCA210 adapter is connected to an EV charging point the charging process can be triggered by selecting the appropriate charging mode using the Control Pilot (CP) and PP (Proximity Pilot) rotary switches. Electrical tests can then be carried out using a suitable tester connected to the EVCA210 adapter either using the mains socket or the 4mm terminals.

With this adapter, charging points can be tested in accordance with IEC/EN 61851-1 and IEC/HD 60364-7-722.

The Megger EVCA210 comes in a soft carry case complete with 2 connection cables with the following plug options:

Type 2 connector plug - for charging points with panel mounted socket outlet or fixed cable (tether) with Type 2 vehicle socket connector.



Type 1 connector plug - for charging points with panel mounted socket outlet or fixed cable (tether) with Type 1 vehicle socket connector



(Example Mitsubishi PHEV).

FEATURES	
<ul style="list-style-type: none"> ▪ To test Mode 3 vehicle charging points with connectors for type 2 and type 1 sockets or leads. 	<ul style="list-style-type: none"> ▪ CP (Control Pilot) State to simulate the various charging states
<ul style="list-style-type: none"> ▪ PE Pre-Test safety feature for checking presence of possible dangerous voltage on the PE conductor during testing. 	<ul style="list-style-type: none"> ▪ PP (Proximity Pilot) State to simulate the various charging current capabilities.
<ul style="list-style-type: none"> ▪ Measuring terminals L1, L2, L3, N and PE to connect test device such as an installation tester to perform safety and functional tests. 	<ul style="list-style-type: none"> ▪ Separate phase indication by three LED lamps for easy check if voltage is present.
<ul style="list-style-type: none"> ▪ Mains socket for connecting of test device such as an installation tester to perform safety and functional tests. 	<ul style="list-style-type: none"> ▪ Simulation of CP error “E”
<ul style="list-style-type: none"> ▪ Dust and splashing water protected, IP54 rating. 	<ul style="list-style-type: none"> ▪ Simulation of PE error (Earth fault)
<p>SPECIFICATIONS: (All at 23°C±5°C, ≤ 80% R.H.)</p>	
Input voltage	Up to 253 V (single phase system) / up to 440 V (three phase system),
Input Frequency	50/60 Hz,
Type 1 Charging Plug	Type 1 AC charging mode 3, suitable to IEC 62196-2 type 1 or SAE J1772 with vehicle connector (Type 1, 5P single-phase)
Type 2 Charging Plug	Type 2 AC charging mode 3, suitable to IEC 62196-2 type 2 socket outlet or fixed cable with vehicle connector (Type 2, 7P three-phase)
PE Pre-Test	Yes - Button
PP Simulation	NC, 13 A, 20 A, 32 A, 63 A
CP States	A, B, C, D (Vented & Un-Vented)
CP Error “E”	Yes
PE Error (Earth fault)	Yes

Measuring Ports L1, L2, L3, N and PE	Max. 253/440 V AC, CAT II 300 V, max. 10 A
Mains socket	Max. 253 V AC, CAT II 300 V, max. 10 A, Note: Do not load mains socket simultaneously with measuring ports!
CP Signal output Ports	Approx. +/-12 V, CAT 0 (under normal condition)
Measurement category	CAT II 300 V
Altitude above sea level.	2000 m max.
Dimensions (W × H × L)	227mm x 109mm x 63mm (without connection cable and test cable)
Weight	Approx: 780g
IP-rating	IP54
CE directive	Low Voltage Directive LVD 2014/35/EU
Safety	IEC/EN 61010-1:2010 IEC/EN 61010-2-030:2010
Working temperature range	0 to +40 °C
Storage temperature range	-10 to +50 °C
Working humidity range	10 to 85% relative humidity w/o condensation
Fuse Rating	10A/250V (5mm x 20mm)

ORDERING INFORMATION

Description	Order Code
EVCA210	****_***
Included Accessories	
Soft Carry Case	****_***
Type 2 Connector	****_***
Type 1 Connector	****_***