

Datasheet





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EVCA210/EVCA210-UK

Electric vehicle charge-point adaptor



- Push Button for PE Pre-Test
- Push button for CP Error "E" simulation
- Push button for PE Error (Earth Fault) simulation
- Rotary switch providing PP State simulation
- Rotary Switch providing CP State simulation
- Type 2 Charging Plug for charging points with panel mounted socket outlet or fixed cable with vehicle connector
- Type 1 Charging Plug for charging points with fixed cable and vehicle connector
- (Example Mitsubishi PHEV) option for the EVCA210/standard on the EVCA210-UK
- IP54 Rating
- Carrying Case
- CAT II 300V Rating
- Comply with Low Voltage Directive LVD 2014/35

DESCRIPTION

The Megger EVCA210/EVCA210-UK are compact, simple to use adapters designed to perform all the functions required by the electrical contractor to fully test Mode 3 AC Electric Vehicle Charge-points. Specially designed to comply with UK, European and other International wiring regulations and standards, the EVCA210/EVCA210-UK may be used on all single and three phase electric vehicle charge points, with appropriate connectors. They are designed to test the function and safety of a charging point. The adapters allow you to conduct tests using appropriate single or multifunction test instruments on EV charging points in accordance with IEC/EN 61851-1 and IEC/HD 60364-7-722. Charging points should be tested as part of the initial installation and repeated periodically.

The Megger EVCA210/EVCA210-UK test adaptors are designed to simulate the connection of an electrical vehicle to the charging point under test. Connection of the adapter enables the operator to trigger the charging process by selecting the appropriate Proximity Pilot (PP) and Control Pilot (CP) states.

Test instruments can be connected using either the front mounted mains socket or the 4mm connection ports L1, L2, L3, N, PE. 2 additional CP signal terminals give the operator the ability to measure the CP signal using an oscilloscope.

In addition, the adapters have a manual PE Pre-Test feature that allows the user to test for dangerous voltages present on the PE, prior to any other testing of the charge point. If this test fails, testing must cease as potentially dangerous voltages may be present on the PE and faults must be investigated and rectified before continuing. The adapters also integrate two further manual tests: CP Error – simulates an error on the control pilot circuit; and a PE Error – where a disconnection of the PE circuit is produced. Both test ensure correct disconnection of the output of the charge point. Before carrying out testing with this adaptor, it is recommended that the user familiarize themselves with the relevant standards:

IEC 61851-1:2017, Electric vehicle conductive charging system - Part 1: General requirements



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IEC 60364-7-722:2018 Low-voltage electrical installations - Part 7-722: Requirements for special installations or locations - Supplies for electric vehicles and any documentation relating to the charging station itself.

The Megger EVCA210-UK is provided with 2 connection cables as standard, a Type 2 connector for charging points with panel mounted socket outlet or fixed cable with vehicle connector and a Type 1 connector for charging points with

fixed Type 1 cable connector – as found on the Mitsubishi PHEV.

The Megger EVCA210 is supplied with the Type 2 plug only.

	EVCA210	EVCA210-UK
Input voltage 250 V (single phase system) / 430 V	•	•
(three phase system),		
Push Button for PE Pre-Test		•
Rotary switch providing PP State simulation	•	•
Rotary Switch providing CP State simulation		•
Push button for CP Error "E" simulation	•	•
Push button for PE Error (Earth Fault) simulation		•
Measurements on live conductors (L1, L2, L3 and N)	•	-
and on PE conductor		
Mains Socket: EVCA210-UK - 13A UK socket	•	•
EVCA210 - Schuko socket (CEE 7/3)		
CP signal test, two 4 mm ports for connection to an	•	-
oscilloscope		
CAT II 300 V		•
IP Rating IP54		•
Type 2 Plug for charging points with panel mount-	•	•
ed socket outlet or fixed cable with vehicle connec-		
tor.		
Type 1 Plug for charging points with fixed cable		•
and vehicle connector – Supplied with EVCA210-UK		
as standard		
Soft Carry Case		

EVCA210/EVCA210-UK

Electric vehicle charge-point adaptor

SPECIFICATIONS

Input voltage Up to 250 V (single phase system) / up to

430 V (three phase system)

Input Frequency 50/60 Hz,

PE Pre-Test Yes - Push button

CP Error "E" simulation Push button

PP Simulation NC, 13 A, 20 A, 32 A, 63 A

CP States A, B, C, D
CP Error "E" Yes
PE Error (Earth fault) Yes

Measuring Ports

Max. 250/430 V, CAT II 300 V, max. 10 A

L1, L2, L3, N and PE

Mains socket Max. 250 V, CAT II 300 V max. 10 A,

Note: Do not load mains socket simultaneously with measuring ports!

CP Signal Test Ports Approx. +/-12 V, CAT 0 (under normal

condition)

In case of wrong wiring or error of the charging station these terminals

Measurement category CAT II 300 V

Altitude above sea level. 2000 m max.

Dimensions (W \times H \times L) mm x mm x mm ? (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 $0 \dots +40 \,^{\circ}\text{C}$ Storage temperature range $-10 \dots +50 \,^{\circ}\text{C}$

Reference humidity range 10 ... 60% relative humidity w/o

condensation

Working humidity range 10 ... 85% relative humidity w/o

condensation

Description	Part number	Description	Part number
EVCA210-UK (UK Mains Socket)	1012-732	EVCA210 (Schuko Mains Socket)	1013-317
Included accessories		Included accessories	
Type 1 Charging Plug Type 2 Charging Plug Soft Carry Case Instruction Manual		Type 2 Charging Plug Soft Carry Case Instruction Manual	
		Optional accessories for EVCA210 & EVCA210-UK	
		EVCA210 Soft Carry Case	1013-318
		Type 1 Charging Plug	1013-319
		Type 2 Charging Plug	1013-320

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LOCATIONS

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