

Dual Socket Test Box

User manual

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Safety precautions

Warnings

- The EVBox Dual Socket Test Box must be used exclusively for the purpose intended, as described in “description”.
- Ensure that the EVBox Dual Socket Test Box is used under the correct operating conditions.
- The EVBox Dual Socket Test Box contains no user-serviceable parts. Consult EVBox or your distributor for more information in case of observing unexpected behavior. Do not attempt to service or repair the EVBox Dual Socket Test Box yourself!
- Do not modify the product in any way. This will result in a loss of product warranty and liability and may lead to dangerous circumstances!

Standards and regulations

The product is manufactured and tested according to the following regulations:

- EN/IEC60884-1:2002+AMD1:2006+AMD2:2013
- EN/IEC 62196-2:2016



RoHS
Compliant



Description

The EVBox Dual Socket Test Box has been designed for carrying out comprehensive and accurate tests of an EVBox charging station.

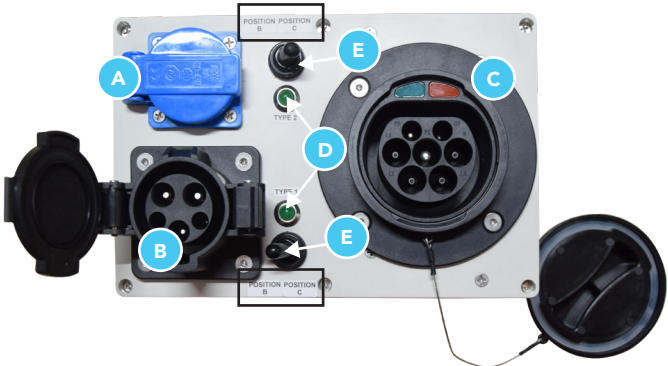
This unit simulates the connection of an EVBox charging station to an electric vehicle, allowing the installer to verify multiple safety and operational requirements during commissioning or field service.

This model with article number 462323 is designed to carry out a full range of tests on all 16 A and 32 A Mode 3 charging stations with either a Type 1 (SAE J1772) or Type 2 (EN/IEC 62196-2) plug. Load simulations can be performed on phase 1 of the installation by applying a load on the Schuko socket.

Features

- Simulates an electric vehicle
- Tests charging stations equipped with charge cable with Type 1 plug (SAE J1772)
- Tests charging stations equipped with charge cable with Type 2 plug (EN/IEC 62196-2)
- Allows for testing of contactor functionality of EV charging stations
- Includes indicator lights to show charging session status on the selected socket

- A** Schuko socket with protective cover
- B** Type 1 (SAE J1772) socket with protective cover
- C** Type 2 (EN/IEC 62196-2) socket with protective cover
- D** Socket light indicators
- E** State Switch for EV charging simulation



Definition of state options

Position B Electric vehicle connected, not charging

Position C Electric vehicle connected, charging

Operation / charging station

Warnings

- The Schuko socket is intended for test purposes only.
- Do not use it as an extension for local power supply.
- The Type 1 or Type 2 socket is energized when its corresponding light indicator is lit.
- Do not use both Type 1 and Type 2 sockets simultaneously.

How to test EVBox charging station

1. Plug the charging cable into the EVBox Dual Socket Test Box in its designated socket (Type 1 or Type 2).
2. Set the switch button to "Position C" for the appropriate socket type (Type 1 or Type 2).
3. Start the charging session by holding an RFID card in front of the charging station's RFID reader. Alternatively, you can use any other available authorization method to start a charging transaction.
4. The green LED ring (HMI) will begin flashing; you will hear one beep sound.
5. At this point, the LED ring will turn yellow and then immediately to blue, indicating that the simulated charging session has started. You will see the green socket indicator light for the chosen socket type (Type 1 or Type 2) lighting up, indicating that its corresponding socket is energized.
6. Stop the charging session by holding the same RFID card in front of the charging station's RFID reader, or by using the same alternate authorization mode from step 3 to stop the charging transaction.
7. The LED ring will turn green or switch off completely (depending on the settings).

Operation / kWh meter

How to test the kWh meter on EVBox charging station

1. Plug the charging cable into the EVBox Dual Socket Test Box in its designated socket (Type 1 or Type 2).
2. Plug any device into the Schuko socket (e.g. an electric heater) and turn it on. Note: The maximum current rating of the device must not exceed 10 A.
3. Set the switch button to "Position C" for the appropriate socket type (Type 1 or Type 2).
4. Start the charging session by holding an RFID card in front of the charging station's RFID reader. Alternatively, you can use any other available authorization method to start a charging transaction.
5. The green LED ring (HMI) will begin flashing; you will hear one beep sound.
6. At this point, the LED ring will turn yellow and then immediately to blue, indicating that the charging session has started. You will see the green socket indicator light for the chosen socket type (Type 1 or Type 2) light up, indicating that its corresponding socket is energized.
7. Some charging stations allow you to monitor the kWh meter readings during a charging session. This will enable you to monitor the actual energy consumption.
8. After a while, stop the charging session by holding the same RFID card in front of the charging station's RFID reader, or by using the same alternate authorization mode from step 4 to stop the charging transaction.
9. The LED ring will turn green again or switch off completely (depending on the settings).
10. Check that the charging session is recorded in the online portal and that the energy consumption is shown.

Maintenance

This product contains no user-serviceable parts. Consult EVBox or your distributor for more information. Do not attempt to service or repair the product yourself!

Cleaning

No special maintenance is required for the housing. To clean the surface of the EVBox Dual Socket Test Box, use a soft cloth slightly moistened with soapy water.

Warnings

- Do not use petrol- or hydrocarbon-based liquids.
- Do not spill cleaning liquid over the EVBox Dual Socket Test Box.

Service

For any repairs under warranty, please contact your distributor.

Technical specifications

General properties

Input voltage	400 V (3-phase)
Frequency	50/60 Hz
Maximum test current	13 A intermittent operation
Protection degree	IP 44
Altitude	+2000 m (6560 ft) above sea level
Dimensions (L x W x H)	230 x 150 x 85 mm (9 x 6 x 3 in)
Weight	1,36 kg (3 lbs)

Functions

CP simulation	state B (EV connected, not charging), state C (EV connected, charging)
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Operation conditions

Operating temperature range	-25°C to +60°C (-13°F to +140°F)
Operating humidity	Max. 95 % non-condensing

Storage conditions

Storage temperature range	-25°C to +60°C (-13°F to +140°F)
Maximum relative humidity	Max. 95 % non-condensing

Acronyms

- EV:** Electric vehicle
HMI: Human-machine interface
kWh: kilowatt-hour
LED: Light-emitting diode
RFID: Radio frequency identification

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Article number: 999500.2
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