

# Other instruments / adapters / accessories

## A 1732 DC EVSE Adapter



The A 1732 DC EVSE Adapter is a specialized tool designed for electrical safety and functional testing of Electric Vehicle Supply Equipment in both Mode 4 (DC EVSE) and Mode 3 (AC EVSE) configurations. It supports a range of connector types, including CCS2, CHAdeMO, and Type 2 AC plugs, making it highly versatile. The A 1732 adapter enables initiation when paired with MI 3155 of communication protocols, such as ISO 15118, DIN 70121, CHAdeMO, and Low-level PWM, and it can also simulate errors on the Control Pilot (CP) signal and Protective Earth (PE) connections to assess EVSE response. When paired with the MI 3155 EurotestXD installation tester, the A 1732 DC EVSE Adapter can be used to log the charging protocol, perform measurements and testing required for EVSE commissioning and for periodic safety testing.

### KEY FEATURES

- Support for **CCS2, CHAdeMO and AC EVSE**;
- Functional test protocol for measuring voltages and current on the terminals;
- Fault simulation on CCS2 and Type 2 for **CP open, PE open and CP short**;
- Fault simulation on CHAdeMO for **CP3 open, PE open and CAN stop**;
- Banana test points for DC, AC and PE terminals;
- Double PE test terminals (PE(C) and PE(P)) for a **true 4-wire Rlow measurement**;
- Bluetooth communication with MI 3155 EurotestXD;
- Overvoltage category CAT III / 300 V;
- **CCS ISO 15118-1 or DIN 70121** communication support;
- **CHAdeMO version 0.9.1** and higher communication support;
- **AC EN 61851-1** communication support;
- Simulated EV Battery of 300 V and 5 A.

### USED TOGETHER WITH MI 3155

- Communication with A 1732 DC EVSE Adapter via Bluetooth;

- **Predefined test protocol for DC EVSE** in the memory structure;
- All measurement can be started and viewed on **MI 3155 EurotestXD**;
- Performing accurate 4-wire measurements with 200 mA measuring current;
- **Insulation resistance** with DC voltage up to 2500 V;
- Functional test with a **live view of charge protocol** and voltages and currents on the test terminals;
- Remote faults triggering and reaction time measuring;
- DC impedance measurement;
- Discharge time measurement;
- Asymmetric **IMD test** with a setupable fault resistance between 20 kΩ and 640 kΩ at 5 kΩ intervals;
- **Programmable AUTO SEQUENCES\*** for customizing the test protocol;
- PC SW Metrel ES Manager for measurement pre and post processing: preparation of the test structure, result download, tree-view, table view and graphical view, storing and **printing the reports**.

### APPLICATION

- EVSE production for functional and electric tests;
- EVSE installation and commissioning;
- Periodic testing of EVSE;
- Troubleshooting problematic EVSE;

### STANDARDS

#### Functionality

- EN 61851 - 1
- EN 61851 - 23
- ISO 15118-1
- DIN SPEC 70121
- CHAdeMO

#### Electromagnetic compatibility

- EN 61326 - 1

#### Safety

- EN 61010 - 1
- EN 61010 - 2 - 030
- EN 61010 - 031

## GENERAL DATA

<b>Mains supply</b>	
Supply voltage, frequency	205 ... 254 V AC, 50 Hz / 60 Hz
Max. power consumption	2000 VA
Mains supply overvoltage category	CAT II / 300 V
Altitude	≤ 2000 m
<b>Measuring category</b>	
Measuring category	CAT III / 300 V
<b>Protection classifications</b>	
Power supply	Class I
Pollution degree	2
Degree of protection	IP40
Case	Shock proof plastic / portable
<b>Communication</b>	
USB 2.0	Standard USB Type B
Bluetooth	v4.2 BR/EDR and BLE specification
<b>EMC</b>	
Emission	Class B (Group 1)
Immunity	Industrial environment
<b>Reference conditions</b>	
Reference temperature range	15 °C ... 35 °C
Reference humidity range	35 % ... 65 % RH
<b>Operation conditions</b>	
Operation	Outdoor use
Working temperature range	-10 °C ... +40 °C
Maximum relative humidity	85 % RH (0 °C ... 40 °C), non-condensing
<b>Storage conditions</b>	
Temperature range	-20 °C ... +60 °C
Maximum relative humidity	90 % RH (-10 °C ... +40 °C) 80 % RH (40 °C ... 60 °C)
<b>General</b>	
Dimensions (w×h×d)	50 cm x 25 cm x 41 cm
Weight	16.2 kg
<b>Communication standards</b>	
CHAdEMO	Versions 0.9.1 and higher
CCS (DC)	ISO 15118-1or DIN SPEC 70121
<b>ISO by default, DIN otherwise</b>	
CCS (AC)	EN 61851-1 low level
Simulated EV battery	
Voltage	280 V to 310 V
Load (charging) current	Cca 4.9 A at 300 V
<b>Input resistance</b>	
DC+/DC-	24 MΩ
DC+/PE, DC-/PE	> 200 MΩ

## ORDERING INFORMATION



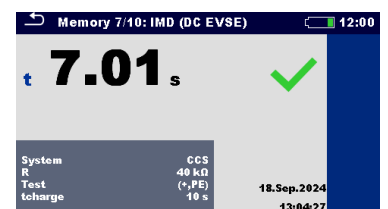
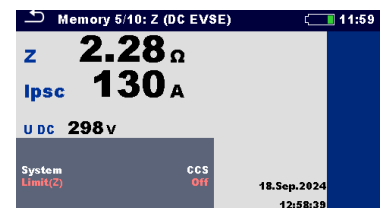
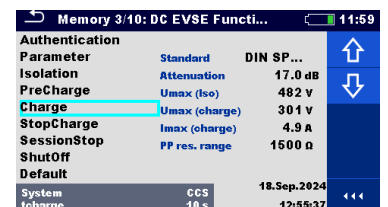
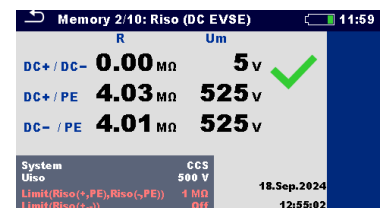
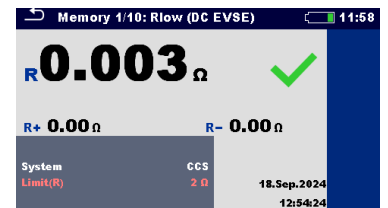
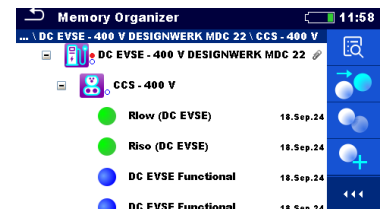
### Standard set A 1732

- A 1732 DC EVSE Adapter
- A 1781 Test cable, GRY/GRN/BRN, 1.5m, 0.75mm<sup>2</sup>, CAT IV
- A 1493 Power cable, 2m, 3x1.5mm<sup>2</sup>
- A 1727 USB cable TypeA/B

## CAN BE USED TOGETHER WITH

Photo	Order No.	Description
	MI 3155	EurotestXD

## MEMORY STRUCTURE EXAMPLE



## METREL d.o.o.

Test and Measurement Equipment  
Ljubljanska 77, SI-1354 Horjul, Slovenia  
T +386 (0)1 75 58 200  
info@metrel.si  
www.metrel.si

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.  
Subject to technical change without notice.