



Safety information and explanation of symbols used

References marked on instrument or in instruction manual.

Warning of a potential danger; read before use and follow the instruction manual when using this instrument.

Reference! Please use utmost care.

Caution! Dangerous voltage. Danger of electrical shock.

Ground / earth terminal.

Continuous double or reinforced insulation category II IEC 536 / DIN EN 61140.

Conformity symbol, the instrument complies with the valid directives. It complies with the EMC Directive (2014/30/EU), Standard EN 61326 is fulfilled. It also complies with the Low Voltage Directive (2014/35/EU) Standards EN 61010-1 and EN 61010-031.

UK conformity mark.

Instrument fulfils the standard (2012/19/EU) WEEE. This marking indicates that this product should not be disposed with other household wastes throughout the EU.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

The respective accident prevention regulations established by the professional associations for electrical systems and equipment must be strictly met at all times.

In order to avoid electrical shock, the valid safety and wiring regulations regarding excessive contact voltages must receive utmost attention, when working with voltages exceeding 120V (60V) DC or 50V (25V)rms AC voltages. The values in brackets are valid for limited ranges (as for example medicine and agriculture).

Measurements in dangerous proximity of electrical systems are only to be carried out in compliance with the instructions of responsible electronically skilled technicians, and never alone.

If the operator's safety is no longer ensured, the instrument is to be put out of service and protected against use. Safety is no longer ensured, if the instrument:

- shows obvious damage.
- does not carry out the desired measurements.
- has been stored for too long under unfavourable conditions.
- has been subjected to mechanical stress during transport.

The instrument may only be used within the operating ranges as specified in the technical data section.

Measurement CAT II is applicable to testing and measuring of branch circuits. This part of the installation is expected to have three levels of overcurrent protection between the transformer and connecting points of the measuring circuit. This tester's voltage rating for CAT II locations is 300V where the voltage is Phase (Line) to earth.

For EVSE testing only, 10A max, intermittent use.

Operating the MP-EVA

- With the MP- EVA rotary dial to the off position connect the adaptor to the charging station.
- Select the rotary dial to the Ready position.

The ready position simulates a vehicle connected to the charge station.

The charge station uses Pulse Width Modulation (PWM) at 1kHz to communicate with an electric vehicle.

The MP-EVA monitors the charge station Control Pilot (CP) signal and checks for correct PWM .

A Blue ready LED will illuminate if the PWM is correct.

If the PWM received from the charge station is incorrect a red flashing Comms Error LED will illuminate*.

* Please note that some EVSE have an extended delay before they change status.

For details of communication protocol refer to IEC/EN 61851-1 and the charge point manufacturer documentation.

- Select the rotary dial to the charge position.

This simulates a vehicle connected to the charge station and ready to charge.

The green charge LED will illuminate and phase indicator(s) LED will illuminate red to indicate voltage present at the terminals.

A suitable measurement instrument can then be connected to the measuring terminals and testing can be performed as required.

Low current loop tests should be conducted when using the MP- EVA.

To test RCD and 6mA DC protection, connect your tester to MP- EVA. Turn the rotary dial to ready and then charge. After each trip reset the RCD and then turn MP- EVA dial to Off and then back to charge*.

*Some EVSA equipment does not require you to do this.

Measuring terminals L1,L2,L3,N,PE

Measuring terminals are directly connected to L1,L2,L3,N,PE conductors of the charging station under test. These terminals are for testing purposes only. It is not permitted to draw current for a prolonged period or supply anything else.

The MP- EVA has no user serviceable parts. For service or repair contact MEET on (852) 29504689.

Cleaning

If the instrument is dirty after daily usage, it is advised to clean it by using a humid cloth and a mild household detergent. Prior to cleaning, ensure that instrument is switched off and disconnected from external voltage supply and any other instruments connected (such as EVSE under test, control instruments, etc.).

Never use acid detergents or dissolvent for cleaning.

Specifications

Input voltage:	Max 250V (single phase), Max 430V (three phase) 50/60Hz
Measurement Cat:	CAT II 300V
Double insulated	
CE	
UKCA	
Safety:	EN 61010
EMC:	EN 61326
Connector:	IEC 62196-2 Type 2 male
Working temp:	0 – 40 deg C
Storage temp:	-10 – 50 deg C
Humidity:	0-80% RH
Current Rating:	10A Max

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Operating Instructions

MP-EVA



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