

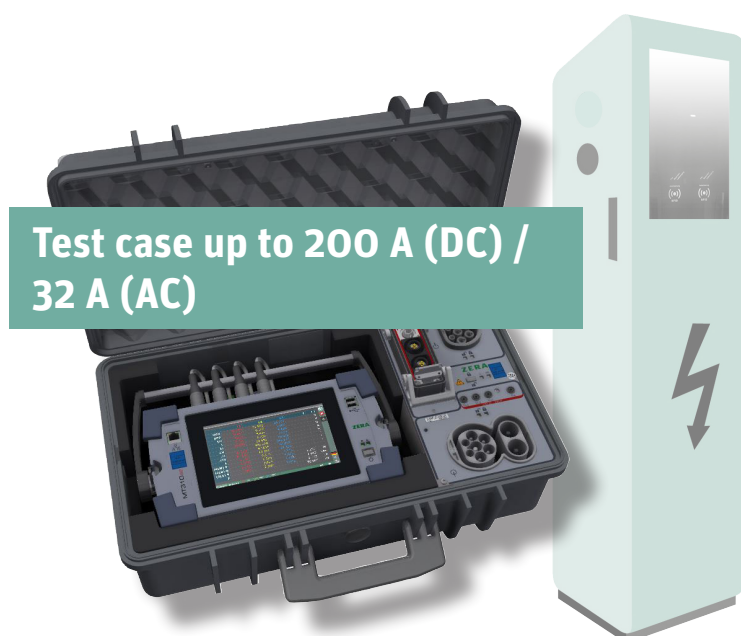
# INFORMATION

08/2022

## E-MOBILITY - On-site testing of AC and DC charging stations

The growing number of electric vehicles in Europe also makes the expansion of the charging infrastructure increasingly important. The requirements for the charging process of electric vehicles with their different charging capacities and different types of connectors are high. The charging stations should work reliably and according to their specifications. Special test equipment and adapters are necessary to verify them.

With our test case EMOB200 and in combination with a portable reference meter of the new s2-series, the on-site testing of charging stations can easily succeed. Due to our MT3x0s2 including a battery pack, you are independent of the mains supply when measuring current and voltage on-site. A predefined test sequence in WinSAM guides you through the individual work steps up to the reporting of your measurement results. Testing can be so simple.



**Test case up to 200 A (DC) / 32 A (AC)**

### EMOB200

- Test case for direct connection to charging stations for electric vehicle
- Reliable energy measurement during the charging process
- Optimal extension unit for the portable reference meter MT310s2
- Current measurement up to 200 A (DC) and 32 A (AC)
- Connector type 2 / CCS2 (EU)

### Easy handling

- Direct connection via special charging cables
- Permanent connection of s2 device\* and test case
- A comprehensive range of accessories for on-site testing in a separate case

### High safety aspects

- Connections according to IEC 62196
- Battery pack\* for mains supply of the reference meter on-site
- Safety check
- Charging cable detection
- Electromechanical locking mechanism
- Temperature monitoring of the high-current contacts
- Overcurrent detection

### High accuracy

- Accuracy of the integrated transformers: 0,05 %
- Charging cable with additional measuring line (sense) to avoid measuring uncertainties or losses due to cable length if there is no connection cable at the charging station is available.

**Due to battery operation\* independent of the mains**



**Software-controlled test sequence**

\* only valid in operation with MT3x0s2



## Technical data in summary

Product name	Type	Max. current	Max. voltage	Number of phases	Type of current	Accuracy*
EMOB200	Test case	32 A (AC) 200 A (DC)	300 V (AC) 1000 V (DC)	3 (AC) 1 (DC)	AC and DC	0,05 %

\* of the integrated transformers

### All special features at a glance

#### Efficient

- Short set-up time due to permanent connection

#### Plus

- On-site measurement out of the transport case (without uncasing)



#### Direct

- Industrial plug connector for CCS2 connection with an electric vehicle or load
- Overcurrent detection
- Temperature monitoring

#### Direct

- Type 2 connection with an electric vehicle or load

#### Clear

- LED status indication
- Button and LED indication for a secured locking mechanism of the plug connection (safety check)

#### Direct

- Combination plug CCS2 / type 2 for connection with the charging station
- Overcurrent detection
- Temperature monitoring

#### Accurate

- Voltage connection (measurement of the voltage on the current via return measurement (sense))

### On-site testing – comfortable and fast



Further information

<https://www.zera.de/en/products/test-systems-e-mobility/>

