ZERA

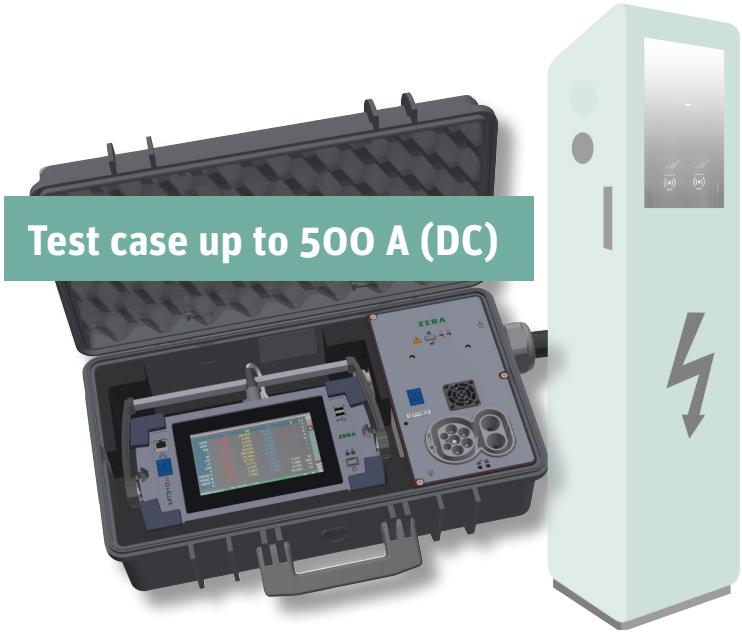
INFORMATION

10/2023

E-MOBILITY - On-site testing of DC charging stations and HPC

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 operate reliably, according to their specifications and, especially the HPC (High Power Chargers), should operate *fast*. Special test equipment and adapters are necessary to verify them.

With our test case EMOB500 and in combination with a portable reference meter of the new s2-series, the on-site testing of charging stations and HPC 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 500 A (DC)

Due to battery operation[1] independent of the mains

Software-controlled test sequence

EMOB500

- 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 MT3x0s2
- Current measurement up to 500 A (DC)
- Connector CCS2

Easy handling

- Automatic control of the EMOB test case by WIFI
- Direct connection via special charging cables
- Permanent connection of s2 device[1] 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[1] 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 0.1 %

1 only valid in operation with MT3x0s2

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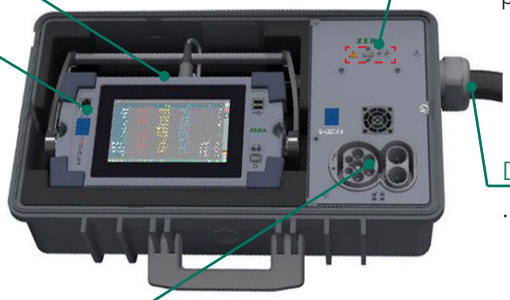
Technical data in summary

Product name	Type	Max. current	Max. voltage	No. of phases	Type of current	Accuracy with MT3xOs2	Plug
EMOB500	Test case	500 A (DC)	1000 V (DC)	1 (DC)	DC	< 0.1 %	CCS2

All special features at a glance



Efficient
- Short set-up time due to permanent connection

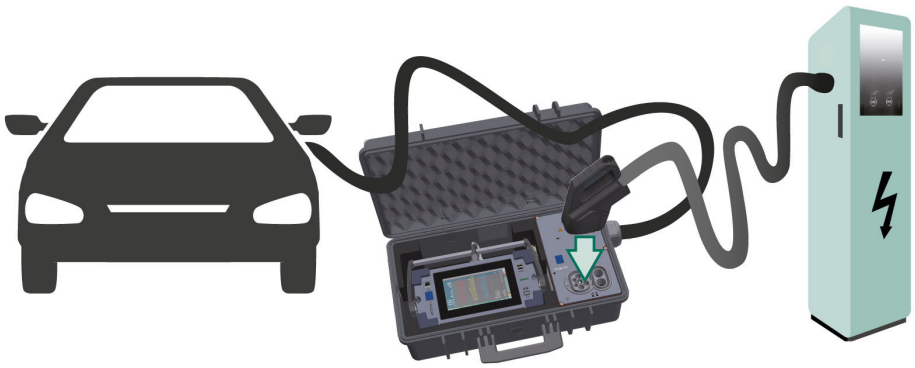
Clear
- LED status indication
- Button and LED indication for a secured locking mechanism of the plug connection (safety check)

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

Direct
- Permanently connected charging cable for connection with the electric car

Direct
- Combination plug CCS2 for connection with the charging station / HPC
- Overcurrent detection
- Temperature monitoring

On-site testing – comfortable and fast



Further information
https://www.zera.de/en/products/test-systems-e-mobility/

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