

## End-of-line test – MTS310e

### Testing of AC charging stations in compliance with calibration law

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. This requires sophisticated quality control at the end of the production process.



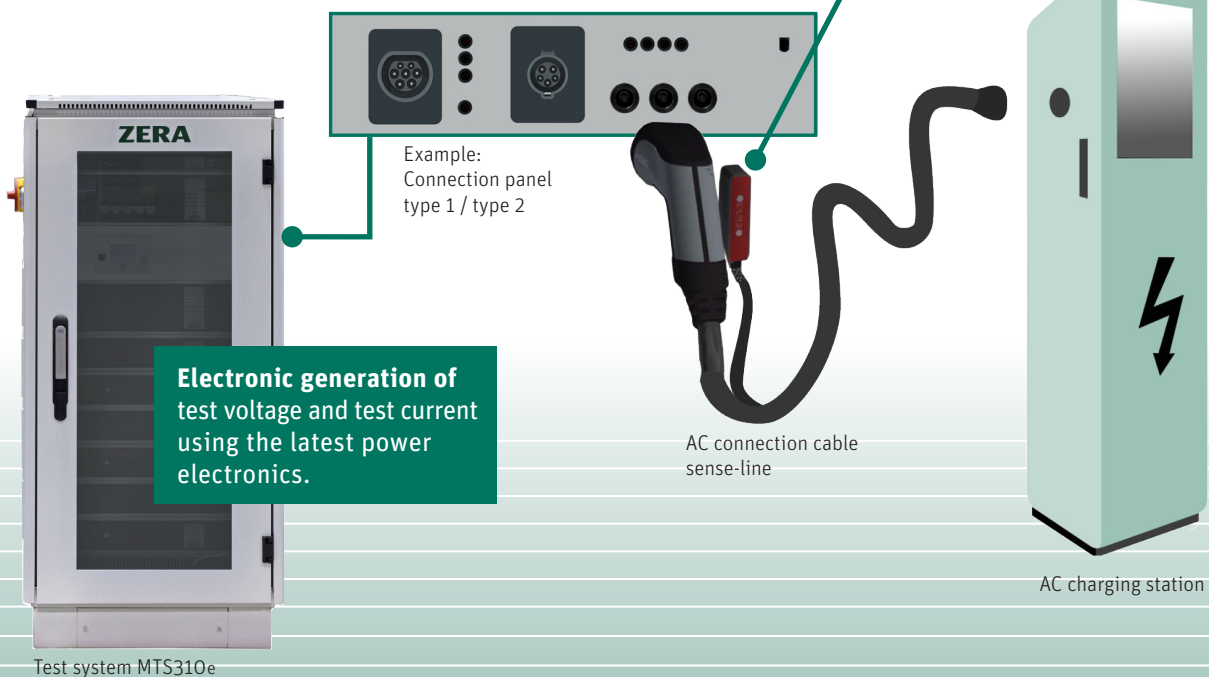
#### Suitable for accreditation according to MID

Our compact systems, including a test value generation and measuring system, can be seamlessly integrated into your production process. The test quantities are supplied to the charging station via a customised connection adapter. The metrological verification is carried out either via a charging cable permanently connected to the charging station or via our special charging cable with sense line, which can be connected to the connection panel on the test system.

*European Directive 2014/32/EU (MID) - e.g. module B and F (calibration and routine testing)*

**Quality inspection and calibration**

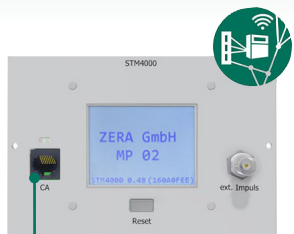
**Highly accurate measurements without loss**  
Using the sense line ensures highly accurate measurements without losses.



## Hardware – Testing up to 120 A (AC) and 320 V (AC)

### Synthetically generated

- Synthetic generation of test values



STM4000 measuring module



TK326 Scanning head



### Precise

- Three-phase Reference Meter EPZ303-xx of class 0.02

### Digital

- Cutting-edge measuring system from the STM4000 series combined with a plug-in communication unit serves as a “error calculator”
- Metrological testing of the entire charging station

### Powerful

- Output power U 3x 500 VA
- Voltage generation max. 320 V (AC)
- Output power I 3x 600 VA
- Current generation max. 120 A (AC)

### Options

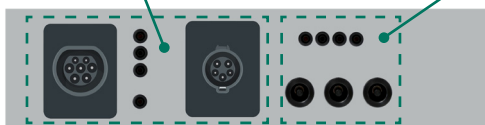
- Watchdog to ensure safety
- DTS100 for data transfer
- Adaptable to existing systems
- Test position can be adapted variably to the DUT on request

### Input

- Type 1
- Voltage connection for sense-line
- Type 2

### Output

- Current
- Voltage



Example: Connection panel for charging station

## WinSAM – Software for control and testing

### Specials

- Automatic and manual control
- Simple implementation in the customer's IT landscape
- Network-compatible
- Individual, pre-defined test sequence
- Individual layout by report generator
- Reporting including evaluation

The entire test system can be controlled automatically or manually using the WinSAM test and control software. Optionally, the system can be controlled via the corresponding interface with the customer's software.

