



### Black boxes

Black boxes are used for the daily check of your testing device. They are connected to the testing device and it is checked, whether the measured values match the values of the black box. If the values do not match, the tester is disabled. The tester will only be enabled after a black-box test with a "GO"-result. We only deliver testing devices with digital evaluation. Therefore, this test is not performed with a "GO / NO GO black box". We are using only one black box and evaluate the measured values within narrow tolerance limits.

Every black box consists of one connection for the tester and one or more resistances and/or inductivities. They can be designed either for one test method or for a combination of several test methods.

Every black box is delivered with the resistance values indicated and with a calibration certificate. This enables the operator to adjust the tests correctly.



Black box for PE



Black box for PE/IR/HV



Black box HV for test-pistols

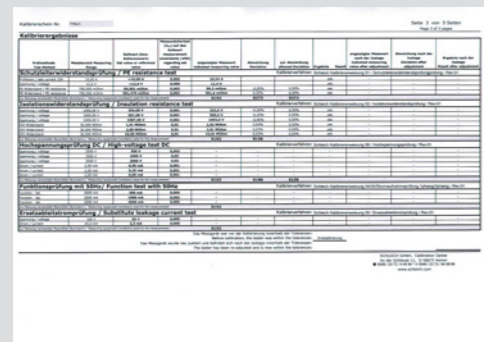


### Calibration

For every company, the monitoring of the test equipment is very important. The regular calibration of your test equipment is an important pre-condition for assuring the quality of your products. Therefore, we calibrate the test equipment of our customers according to standards.

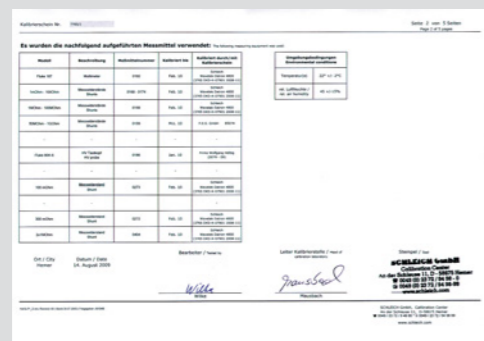
We offer three types of calibration:

- "In-House Calibration" means, we calibrate at the premises of the customer.
- "At-SCHLEICH Calibration" means, we calibrate in our factory.
- "Remote Calibration" means, we support the calibration in your factory via remote maintenance.



Calibrations are performed within the shortest possible time. If necessary, we can provide testing devices on loan for the duration of time we need for the calibration. If required, we can also calibrate devices from other manufacturers – this can save you costs.

If the calibration shows deviating measured values, the test equipment is adjusted. The adjustment is part of our service and is included in the delivery extent of a calibration. A calibration certificate documents the measured values before and after the adjustment.



Our calibrations are based on international standards. Of course, our ISO9001-certified Calibration Center also works with additional standards, like DIN EN ISO 10012 "Requirements for measurement processes and measuring equipment".

### Calibration resistors

In addition to measuring instruments, precise calibration resistors are necessary for the calibration of testers. The calibration resistors enable the respective test currents for individual test methods and test voltages.

The high-precision resistors withstand high temperatures and have a long service life. In order to dissipate the heat resulting from high test currents or long-time measurements, all our calibration resistors are delivered in special heatsink enclosures. In addition, the resistors have a low-capacity and low-inductivity design.

All resistors for high test currents and low test voltages are designed in 4-wire configuration.

Every resistor is delivered with a calibration certificate indicating the resistance value, which can be used for calculations.



Calibration resistor in 4-wire configuration



Calibration resistor, high-voltage proof



High-current resistor in 4-wire configuration

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