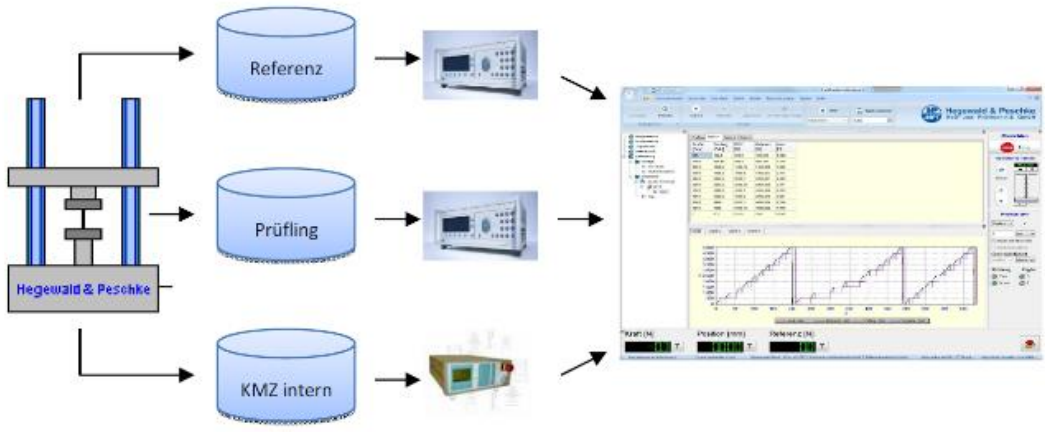
Hegewald & Peschke
Meß- und Prüftechnik GmbH

Product Information

LabMaster-Add-on for calibration



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This add-on for the material testing software LabMaster contains the specific test sequences and evaluation principles for calibration of force measuring devices, load cells, and various other sensors and devices for the validation of the load measuring chain of a complete testing machine.

The data are organized in the same way as the other test modules run in LabMaster, i.e. in the form of templates and test series. Within the test series, a test is a complete check of a load cell with an adjustable number of calibration sequences and steps stored in a table. These can also be combined in the form of test batches.

For direct reading of the reference values, the module supports all amplifiers that work with an HBM-compatible protocol (e.g. MGC plus, DMP40) as well as devices of the QuantumX series (other amplifiers on request). In addition, it is possible to enter values directly during the test procedure, so that data from devices, which cannot be connected to the measurement computer are supplemented and recorded in the test series.

As in all other test modules, the standard test sequence and the block program are available for the actual test. In the standard test sequence, load levels, holding times, reference devices and channels can be conveniently defined. In addition, specific processes such as pre-load levels, reverse test sequences, etc. can be defined. Hereby loading in either tension or compression direction are possible.

Using the block program, complex tests can also be parameterized, e.g. to divide the test sequence into subprograms and to be able to react to events.

This also includes manual approach, i.e. "tapping" to a certain value by the operator.
The block program can also be used to dynamically check measuring devices.

The evaluation of the tests includes both the tabular presentation of default value for load level, measured values of external device, which are subjected for inspection, measured value of the internal load cell, measured value of the reference load cell as well as the absolute deviation between test specimen and test reference, the percentage deviation related to the nominal load of the tested load cell, and decision criteria for adjustment ("borderline"), etc.

Optionally, results can be created in LabMaster via the formula editor, which are calculated immediately after value recording and also entered in the result table. This also includes okay/ not okay evaluations, which can then be transferred via the optional export module of LabMaster to higher-level systems, e.g. databases for measuring equipment monitoring or similar.
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