MESTEC®

Certified
factory calibration

Service-Center

TÜV SÜD ISO 9001

Research, development, innovation and production require precise and reliable measuring instruments and testing systems. With our “Keep Alive Program” (KAP) we guarantee long-term investments, even for discontinued devices and systems.

Regular KAP calibration, why?

Measuring equipment can develop deviations from nominal values or specifications over time. Daily stresses owing to temperature changes, switch-on/switch-off processes, humidity or even simple oxidation affect the functionality of the measuring equipment, which is why regular adjustments and calibrations (KAP) are recommended. You thus achieve precision, as is clearly shown in the graphic (level 3).

What sets our certified factory calibration apart?

A factory calibration follows the manufacturer's production specifications with regard to the number of measurement points and tolerance limits. Full functionality is therefore guaranteed.

Existing deviations from nominal are corrected through the use of the manufacturers’ automated adjustment programs, which have been entrusted exclusively to MESTEC GmbH.

The measurement results are within the bounds of the measurement uncertainty of the measuring equipment used.

The measuring equipment used and our climate-controlled calibration laboratory are subject to regular inspection.

The underlying QMS service at MESTEC in accordance with DIN/ISO 9001:2015 supports the requirements of sections 4 to 7 of ISO/IEC 17025.

KAP flow chart

1

Initial test

Initial test means that the device is subjected to an initial inspection, i.e. the external appearance is inspected and a button test is conducted. This is followed by a self-check and automatic functional test.

2

Adjustment

Adjustment is understood to mean the most exact possible setting through expert intervention with the aim of minimising the deviations from the target value.

MESTEC exclusively carries out adjustments in a climate-controlled calibration laboratory, taking all of the parameters specified by the manufacturer into account and using the adjustment programs exclusively provided. MESTEC is therefore able to guarantee optimal correction of the nominal value.

Limit values within the calibration

Level 1
Device is within the limit values but exceeds the inspection tolerances. Adjustment is required.

Level 2
Device is within the inspection tolerances. It passes the standard calibration test. The tolerance range is used in full.

Level 3 – KAP
Device works with the highest precision after adjustment has been carried out.
- High measurement accuracy
- Safety
- Delay in exceedance of the tolerances

3

Certified factory calibration

During calibration, the values determined are compared with a reference. If the measurement values exceed the tolerances defined by the manufacturer, then adjustment programs which are exclusively provided by the manufacturer are used.

All of the test points defined by the manufacturer are tested here by MESTEC.

This is the only way to ensure the precise, perfect functionality of the device. In contrast to a factory calibration, a standard calibration is only able to achieve a maximum of the accuracy as shown in the graphic (level 2).

4

Final Test

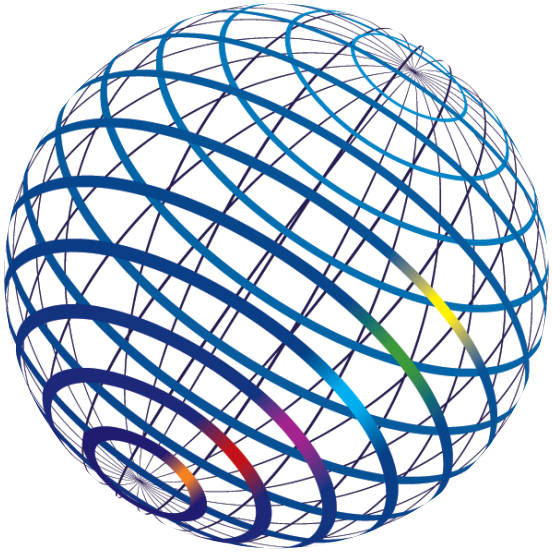
The final test at MESTEC is the finishing touch at the end of every certified factory calibration. Here, an electronic safety test is carried out in accordance with BVG A3, the calibration label and guarantee seal are applied. The device is then cleaned and shipped together with the calibration certificate and measurement report.

5

Peace of mind even during shipping

MESTEC uses specially manufactured bespoke boxes with appropriate inlays for secure shipping of your highly sensitive measuring equipment.

Industrial companies and safety authorities have been relying on our measurement technology expertise for more than 30 years. With this expertise, MESTEC will remain a reliable yardstick for technical excellence in the future.



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MESTEC GmbH
Franz-Josef-Delonge-Str. 12
D-81249 München
Tel. +49 (0)89-86 49 66-0
Fax +49 (0)89-86 49 66-29

info@mestec.de
www.mestec.de

MESTEC SASU
8-10 rue du Bois Sauvage
Villa C
F-91000 Evry