

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-21665-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 20.05.2022

Date of issue 20.05.2022

Holder of certificate:

GeneSys Elektronik GmbH
In der Spöck 10, 77656 Offenburg

Calibration in the fields:

Mechanical quantities

- **Acceleration**
- **Velocity**

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de/en/accredited-bodies-search.html>.*

Abbreviations used: see last page

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This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Annex to the accreditation certificate D-K-21665-01-00

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement ¹⁾	Remarks
Acceleration	0 m/s ² bis 9.8081 m/s ²	Cal-Description-RA 02/2022	$9 \cdot 10^{-3} \cdot A + 0.04 \text{ m/s}^2$	Static acceleration by inclination in the earth's gravity field A = measurement
Angular velocity	0 °/s bis 498 °/s	Cal-Description-RA 02/2022 Cal-Description-R-const 02/2022	$9 \cdot 10^{-3} \cdot \omega + 0.1 \text{ °/s}$	Excitation by angular velocity ω = measurement
Velocity	5 m/s bis 23 m/s	Cal-Description-Vel 02/2022	$3 \cdot 10^{-3} \cdot V + 0.01 \text{ m/s}$	Route reference and measurement of time V = measurement

Abbreviations used:

Cal-Des. Calibration procedure of GeneSys Elektronik GmbH
 CMC Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
 DIN German Institute for Standardization (Deutsches Institut für Normung e.V.)

¹⁾ The expanded uncertainties according to EA-4/02 M:2022 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.