

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-18110-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 10.11.2020

Date of issue 10.11.2020

Holder of certificate:

ASC GmbH

Ledererstraße 10, 85276 Pfaffenhofen a. d. Ilm

Calibration in the fields:

Mechanical Quantities

– **Acceleration**

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

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement ¹⁾	Remarks
Acceleration sinusoidal Vibration sensor	0.5 m/s ² to 20 m/s ²	DKD-R 3-1 part 3:2018 Frequency 0.4 Hz to 1 Hz > 1 Hz to 63 Hz > 63 Hz to 160 Hz ref.-freq. 8 Hz / 16 Hz	1.5 % / 1.5° 1.25 % / 1.25° 1.25 % / 1.5° 1.0 % / 1.1°	Calibration result: Complex sensitivity (amount/phase)
sinusoidal Vibration sensor	10 m/s ² to 300 m/s ²	DKD-R 3-1 part 3:2018 Frequency 5 Hz to < 10 Hz 10 Hz to 1 kHz > 1 kHz to 5 kHz > 5 kHz to 10 kHz Ref.-Freq. 80 Hz / 100 Hz	2.5 % / 1.5° 1.5 % / 1.25° 1.75 % / 1.5° 2.75 % / 2.75° 1.0 % / 1.0°	Calibration result: Complex sensitivity (amount/phase)
sinusoidal Vibration sensor	300 m/s ² to 2 km/s ²	DKD-R 3-1 part 2:2019 Pulse width 10 ms to 1 ms	2.0 %	Peak transmission ratio

Abbreviations used:

DKD-R Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch-Technische Bundesanstalt

¹⁾ The expanded uncertainties according to EA-4/02 M:2013 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.