

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-15001-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 12.12.2018 to 12.07.2023

Date of issue: 12.12.2018

Holder of certificate:

SCS Concept Deutschland GmbH
Zeppelinstraße 2, 84180 Loiching-Kronwieden

Head:

Dipl.-Ing. (FH) Thomas Gruber

Deputy head:

M.Eng. - Wi.-Ing. Silvan Straßer

Accredited as calibration laboratory since: 03.07.2008

Calibration in the fields:

Mechanical quantities:

- Torque ^{a)}

Dimensional quantities:

Angle

- Angle of rotation ^{a)}

^{a)} Only on-site calibration and in the mobile laboratory

Abbreviations used: see last page

The Calibration Laboratory is permitted to use the standards / calibration guidelines with different issue levels listed here without the prior information and approval of the DAkkS being required.

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On-site Calibration

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability ¹⁾	Remarks
Torque				
Torque transducer, Torque measuring chains	0,1 N·m to 2 kN·m	DIN 51309:2005	2·10 ⁻³	
Torque transfer wrenches	1,0 N·m to < 1,5 N·m	DAkks-DKD-R 3-7:2010	4·10 ⁻³	
	1,5 N·m to 2 kN·m		2·10 ⁻³	
Calibration devices for torque wrenches	0,2 N·m to 3 kN·m	DAkks-DKD- R 3-8:2010	2·10 ⁻³	
Angle				
Angle of rotation				
Direct measure angle measuring systems	0° to 360°	VDI/VDE 2648 Bl.1:2009	0.050°	
Indirect measure angle measuring systems	0° to 360°	VDI/VDE 2648 Bl.2:2007	0.20°	

Mobile Laboratory

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability ¹⁾	Remarks
Torque				
Torque transducer, Torque measuring chains	0,1 N·m to 2 kN·m	DIN 51309:2005	2·10 ⁻³	
Torque transfer wrenches	1,0 N·m to < 1,5 N·m	DAkks-DKD-R 3-7:2010	4·10 ⁻³	
	1,5 N·m to 2 kN·m		2·10 ⁻³	
Calibration devices for torque wrenches	0,2 N·m to 3 kN·m	DAkks-DKD- R 3-8:2010	2·10 ⁻³	
Angle				
Angle of rotation				
Direct measure angle measuring systems	0° to 360°	VDI/VDE 2648 Bl.1:2009	0.050°	
Indirect measure angle measuring systems	0° to 360°	VDI/VDE 2648 Bl.2:2007	0.20°	

Abbreviations used:

DAkks-DKD-R Calibration Guideline of Deutsche Akkreditierungsstelle GmbH
 VDI/VDE-Richtlinien Calibration Guideline of Verein Deutscher Ingenieure /
 Verband Der Elektrotechnik

¹⁾ The best measurement capabilities are stated according to EA-4/02. These are expanded uncertainties of measurement with a coverage probability of 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.