

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-15127-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 04.05.2023 Date of issue: 04.05.2023

Holder of accreditation certificate:

Kistler Instrumente Gesellschaft mit beschränkter Haftung Umberto-Nobile-Str. 14, 71063 Sindelfingen

with its calibration laboratory

Brunhamstraße 21, 81249 München

The calibration laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The calibration laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

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

Dimensional quantities

Length

- Length measuring instruments

Electrical quantities

DC and low frequency quantities

- DC voltage
- DC current
- DC resistance

This certificate annex is only valid together with the written accreditation certificate and 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.

Abbreviations used: see last page

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Permanent laboratory, Sindelfingen location

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item		Range		Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Length Displacement sensors	0 mm	to	200 mm	CD30037:2023-01	25 μm	Analogue and digital sensors
	> 200 mm	to	600 mm		50 μm	
	> 600 mm	to	850 mm		90 µm	

Permanent laboratory, München location

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item		Range		Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
DC voltage DC voltage source	0 V	to	1 mV		4.6 µV	direct measurement
	> 1 mV	to	10 mV		5.3 µV	
	> 10 mV	to	100 mV		11 µV	
	> 100 mV	to	1 V		44 µV	
	> 1 V	to	10 V		0.41 mV	
	> 10 V	to	20 V		1.7 mV	
	> 20 V	to	100 V		6.0 mV	
	> 100 V	to	1000 V		60 mV	



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r ennanent laboratory, i			nd Meas	urement Capal	bilities (CMC)	
Measurement quantity / Calibration item		Range		Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
DC voltage measuring devices	0 V	to	450 µV		0.62 µV	
	>450 µV	to	3 mV		1.1 µV	
	>3 mV	to	4.5 mV		1.6 µV	
	>4.5 mV	to	10 mV		3.9 µV	
	>10 mV	to	30 mV		4.9 μV	
	>30 mV	to	45 mV		5.6 µV	
	>45 mV	to	300 mV		25 µV	
	>300 mV	to	450 m V		41 µV	
	>450 mV	to	3 V		0.25 mV	
	>3 V	to	4.5 V		0.43 mV	
	>4.5 V	to	30 V		2.5 mV	
DC current Source	0 A	to	100 µA		1.0 µA	
	>100 µA	to	1 mA		1.6 µA	
	>1 mA	to	10 mA		7.2 µA	
	>10 mA	to	100 mA		0.16 mA	
	>100 mA	to	1 A		1.1 mA	1
	>1 A	to	3 A		4.5 mA	1
	1 mA	to	20 mA		1.5 · 10 ⁻⁴	

Permanent laboratory, München location



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Calibration and Measurement Capabilities (CMC)								
Measurement quantity / Calibration item		Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks			
DC resistance Resistance	0 Ω	to 100 m	2	0.10 mΩ				
	>100 mΩ	to 1	2	0.14 mΩ				
	>1 Ω	to 10	2	0.77 mΩ				
	>10 Ω	to 100	2	7.6 mΩ				
	>100 Ω	to 250	2	21 mΩ				
	>250 Ω	to 660	2	51 mΩ				
	>660 Ω	to 1 k	2	76 mΩ				
	>1 kΩ	to 10 k	2	0.76 Ω				
	>10 kΩ	to 100 k	2	9.1 Ω				
	>100 kΩ	to 1 M	2	91 Ω				

Permanent laboratory, München location

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Abbreviations used:

In house method of the Kistler Instrumente GmbH CD300xxx

CMC Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)