

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-18752-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 28.06.2023

Date of issue: 28.06.2023

Holder of accreditation certificate:

Hellma GmbH & Co. KG
Klosterrunsstraße 5, 79379 Müllheim

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.

Calibration in the fields:

High frequency and radiation quantities
Optical quantities
– Radiometry

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

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement ¹	Remarks
Wavelength	190 nm to 890 nm	spectrophotometry	0.20 nm	
Optical density in transmission (absorbance)	0 to < 0.35		0.0024	Measurement uncertainty in the unit of optical density. The optical density has a unit with dimension 1 and is equivalent to the unit Abs. Definition of optical density according to DIN 5036-1:1978-07.
	0.35 to < 0.55		0.0028	
	0.55 to < 1.05		0.0034	
	1.05 to < 1.55		0.0068	
	1.55 to < 2.05		0.0079	
	2.05 to < 2.55		0.012	
	2.55 to < 3.10		0.022	

Abbreviations used:

CMC Calibration and measurement capabilities
DIN Deutsches Institut für Normung e.V.

¹ Unless otherwise specified, the unit of a variable corresponds to the unit of the measuring range.

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