

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-17726-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 06.01.2021

Date of issue: 06.01.2021

Holder of certificate:

Narda Safety Test Solutions GmbH
Sandwiesenstraße 7, 72793 Pfullingen

Calibration in the fields:

Electrical quantities

High frequency quantities

- **Electric field**

Magnetic quantities

- **Magnetic field**

Abbreviations used: see last page

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>*

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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
Electrical field / Field measuring devices		IEEE Std 1309-2013		
	2 V/m to 100 V/m	9 kHz to 30 MHz	11 %	TEM-Cell (40 cm)
		> 30 MHz to 100 MHz	12 %	H
	5 V/m to 300 V/m	9 kHz to 50 MHz	7 %	TEM-Cell (15 cm)
		> 50 MHz to 300 MHz	9 %	H
	1 V/m to 110 V/m	0.20 GHz to < 0.25 GHz	14 %	Antenna radiation field
	1 V/m to 110 V/m	0.25 GHz to 1.8 GHz	12 %	
1 V/m to 150 V/m	1.8 GHz to < 5.8 GHz	11 %	Antenna radiation field	
5 V/m to 150 V/m	5.8 GHz to 18.0 GHz	11 %	H	
Magnetic field / Field measuring devices		IEEE Std 1309-2013		
	6 mA/m to 0.26 A/m	9 kHz to 30 MHz	11 %	TEM-Cell (40 cm) H

H – Quantity can be calculated to energy flux density under far field conditions

Abbreviations used:

CMC	Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
DIN	Deutsches Institut für Normung e.V.
IEEE	Institut of Electrical and Electronics Engineers
IEEE Std 1309-2013	Standard for Calibration of Electromagnetic Field Sensors and Probes (Excluding Antennas) from 9 kHz to 40 GHz

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.