DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the calibration laboratory

Narda Safety Test Solutions GmbH
Sandwiesenstraße 7, 72793 Pfullingen

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out calibrations in the following fields:

Electrical quantities
High frequency quantities
- **Electric field**

Magnetic quantities
- **Magnetic field**

The accreditation certificate shall only apply in connection with the notice of accreditation of 10.07.2018 with the accreditation number D-K-17726-01 and is valid until 09.07.2023. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the certificate: **D-K -17726-01-00**

Braunschweig, 10.10.2018	Dr. Heike Manke Head of Division	Translation issued: 10.10.2018	Head of Division

This document is a translation. The definitive version is the original German accreditation certificate.
See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

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Annex to the Accreditation Certificate D-K-17726-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 10.07.2018 to 09.07.2023 Date of issue: 10.10.2018

Holder of certificate:

Narda Safety Test Solutions GmbH
Sandwiesenstraße 7, 72793 Pfullingen

Head:	Dipl.-Ing. Joachim von Freeden
Deputy head:	Dipl.-Ing. (FH) Norbert Moll
	B. Eng. Christian May

Accredited as calibration laboratory since: 12.07.2013

Calibration in the fields:

Electrical quantities
High frequency quantities
- **Electric field**

Magnetic quantities
- **Magnetic field**

Abbreviations used: see last page

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Permanent Laboratory

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability [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 – Quantity can be calculated to magnetic field and energy flux under far field conditions

Abbreviations used:

IEEE Institut of Electrical and Electronics Engineers (ein weltweiter Berufsverband von Ingenieuren aus den Bereichen Elektrotechnik und Informationstechnik mit Sitz in New York City)

IEEE Std 1309-2013 Standard for Calibration of Electromagnetic Field Sensors and Probes (Excluding Antennas) from 9 kHz to 40 GHz

[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.