

## 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 testing laboratory

**CTC advanced GmbH**

**Untertürkheimer Straße 6-10, 66117 Saarbrücken**


is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

**Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards**

The accreditation certificate shall only apply in connection with the notice of accreditation of 09.06.2020 with the accreditation number D-PL-12076-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 07 pages.

Registration number of the certificate: **D-PL-12076-01-04**

Frankfurt am Main, 09.06.2020

by order   
Dipl.-Ing. (FH) Ralf Egner  
Head of Division

*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>*

See notes overleaf.

# Deutsche Akkreditierungsstelle GmbH

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Office Braunschweig  
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The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

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](http://www.european-accreditation.org)

ILAC: [www.ilac.org](http://www.ilac.org)

IAF: [www.iaf.nu](http://www.iaf.nu)

## Deutsche Akkreditierungsstelle GmbH

### Annex to the Accreditation Certificate D-PL-12076-01-04 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 09.06.2020

**Date of issue:** 01.08.2022

Holder of certificate:

**CTC advanced GmbH**  
**Untertürkheimer Straße 6-10, 66117 Saarbrücken**

#### **Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards**

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkks, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

Technical Field	Scope	Test Method(s)	Test area / reductions
<b>Electromagnetic Compatibility (EMC)</b>			
EMC	ICES – GEN Issue 1, July 2018	General Requirements for Compliance of Interference-Causing Equipment	
EMC	ICES – 001, Issue 4, June 2006 Updated in Nov 2014	Industrial, Scientific and Medical (ISM) Radio Frequency Generators	
EMC	ICES – 002, Issue 6, March 2013, Updated in Nov 2014, Updated in Feb 2017	Vehicles, Boats and other Devices Propelled by an internal Combustion Engine, Electrical Means or Both	
EMC	ICES – 003, Issue 6, January 2016 Updated in April 2019	Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement	

Abbreviations used: see last page

**Annex to the accreditation certificate D-PL-12076-01-04**

Technical Field	Scope	Test Method(s)	Test area / reductions
EMC	ICES – 004, Issue 4, June 3 2013	Alternating Current High Voltage Power Systems	
EMC	ICES – 005, Issue 5 July 2018	Lighting Devices	
EMC	ICES – 006, Issue 3, July 2018	AC Wire Carrier Current Devices (Unintentional Radiators)	
EMC	ICES-008, Issue 1, June 2015	Cable Distribution Networks	
<b>Radio Equipment and Systems</b>			
TC	BETS-1, Issue 1, November 1996	Technical Standards and Requirements for Low Power Announce Transmitters in the Frequency Bands 525 – 1,705 kHz and 88-107.5 MHz	
TC	BETS-3, Issue 1, November 1996	Technical Standards and Requirements for Radio Apparatus that Form Part of a Master Antenna Television (MATV) Broadcasting Undertaking	
TC	BETS-4, Issue 1, November 1996	Technical Standards and Requirements for Television Broadcasting Transmitters	
TC	BETS-5, Issue 1, November 1996	Technical Standards and Requirements for AM Broadcasting Transmitters	
TC	BETS-6, Issue 2, August 2005	Technical Standards and Requirements for FM Broadcasting Transmitters	
TC	BETS-7, Issue 3, March 2015	Technical Standards and Requirements for Radio Apparatus Capable of Receiving Broadcasting	
TC	BETS-8, Issue 1, November 1996	Technical Standards and Requirements for FM Transmitters Operating in Small Remote Communities	
TC	BETS-9, Issue 1, November 1996	Technical Standards and Requirements for Television Transmitters Operating in Small Remote Communities	
TC	BETS-11, Issue 1, November 1996	Technical Requirements Respecting the Identification of Broadcasting Stations	
TC	CS-03, Issue 9, Part V, Issue 9, Amendment 2 January 2017	Compliance Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility  Part V — Requirements and Test Methods for Magnetic Output From Handset Telephones for Hearing Aid Coupling and for Receive Volume Control	

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Technical Field	Scope	Test Method(s)	Test area / reductions
TC	RSS-Gen, Issue 5, Amendment 1 March 2019	General Requirements for Compliance of Radio Apparatus	
TC	RSS-HAC, Issue 1 March 2019	Hearing Aid Compatibility and Volume Control	
TC	RSS-111, Issue 5, September 2014	Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz	
TC	RSS - 112, Issue 1, February 2008	Land Mobile and Fixed Equipment Operating in the Band 1670-1675 MHz	
TC	RSS – 117, Issue 3, January 2016	Land and Coast Station Transmitters Operating in the 200 – 535 kHz Band	
TC	RSS – 119, Issue 12, May 2015	Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41 – 960 MHz	
TC	RSS – 123, Issue 4, August 2019	Licensed Wireless Microphones	
TC	RSS – 125, Issue 2, Revision 1, March 2000	Land Mobile and Fixed Radio Transmitters and Receivers, 1.705 to 50.0 MHz, Primarily Amplitude Modulated	
TC	RSS-127, Issue 1, August 2009	Air-Ground Equipment Operating in the Bands 849-851 MHz and 894-896 MHz	
TC	RSS-130, Issue 2, February 2019	Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz	
TC	RSS – 131, Issue 3, January 2017	Zone Enhancers for the Land Mobile Service	
TC	RSS – 132, Issue 3, January 2013	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz	
TC	RSS – 133, Issue 6, January 2013 Updated January 2018 Amendment 2018	2 GHz Personal Communications Services	
TC	RSS – 134, Issue 2, February 2016	900 MHz Narrowband Personal Communications Services	

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Technical Field	Scope	Test Method(s)	Test area / reductions
TC	RSS – 135, Issue 2, June 2009	Digital Scanner Receivers	
TC	RSS – 137, Issue 2, February 2009	Location and Monitoring Service in the band 902-928 MHz	
TC	RSS – 139, Issue 3, July 2015	Advanced Wireless Services Equipment operating in the Bands 1710 – 1780 MHz and 2110 – 2180 MHz	
TC	RSS – 140, Issue 1, April 2018	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz	
TC	RSS – 141, Issue 2, June 2010	Aeronautical Radio communication Equipment in the Frequency Band 117.975-137 MHz	
TC	RSS-142, Issue 5, April 2013	Narrowband Multipoint Communication Systems in the Bands 1429.5-1432 MHz	
TC	RSS-170, Issue 3, July 2015	Mobile Earth Stations (MESs) and Ancillary Terrestrial Component (ATC) Equipment Operating in the Mobile-Satellite Service (MSS) Bands	
TC	RSS – 181, Issue 2, August 2019, Amendment February 2020	Coast and Ship Station Equipment Operating in the Maritime Service in the Frequency Range 1605-28000 kHz	
TC	RSS – 182, Issue 5, January 2012	Maritime Radio Transmitters and Receivers in the Band 156 – 162.5 MHz	
TC	RSS-191, Issue 3, April 2008, Note 21-01-2020	Local Multipoint Communication Systems in the Band 25.35-28.35 GHz; Point-to-Point and Point-to-Multipoint Broadband Communication Systems in the Bands 24.25-24.45 GHz and 25.05-25.25 GHz; and Point-to-Multipoint Broadband Communications in the Band 38.6-40.0 GHz	
TC	RSS-192, Issue 3, January 2008	Fixed Wireless Access Equipment Operating in the Band 3450-3650 MHz	
TC	RSS – 194, Issue 1, October 2007	Fixed Wireless Access Equipment Operating in the Band 953-960 MHz	

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Technical Field	Scope	Test Method(s)	Test area / reductions
TC	RSS – 195, Issue 2, April 2014	Wireless Communications Service Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz	
TC	RSS - 196, Issue 2, February 2019	Point-to-Multipoint Broadband Equipment Operating in the Bands 512-608 MHz and 614-698 MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)	
TC	RSS -197, Issue 1, February 2010	Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz	
TC	RSS-199, Issue 3, December 2016	Broadband Radio Service (BRS) Equipment Operating in the Band 2500–2690 MHz	
TC	RSS – 210, Issue 10, December 2019	Licence-exempt Radio Apparatus(All Frequency Bands): Category I Equipment	
TC	RSS-211, Issue 1, March 2015	Level Probing Radar Equipment	
TC	RSS – 213, Issue 3, March 2015	2 GHz Licence-Exempt Personal Communications Services (LE-PCS) Devices	
TC	RSS – 215, Issue 2, June 2009	Analogue Scanner Receivers	
TC	RSS-216, Issue 2, January 2016	Wireless Power Transfer Devices	
TC	RSS – 220, Issue 1, March 2009 Amendment July 2018	Devices Using Ultra – Wideband (UWB) Technology	
TC	RSS – 222, Issue 2, January 2020	White Space Devices (WSDs)	
TC	RSS – 236, Issue 1, September 2012	General Radio Service Equipment Operating in the Band 26.960 to 27.410 MHz (Citizens Band)	
TC	RSS 238, Issue 1, July 2013	Shipborne Radar in the 2900-3100 MHz and 9225-9500 MHz Bands	

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Technical Field	Scope	Test Method(s)	Test area / reductions
TC	RSS – 243, Issue 3, February 2010	Active Medical Implants Operating in the 401-406 MHz Band	
TC	RSS-244, Issue 1, June 2013	Medical Devices Operating in the Band 413-457 MHz	
TC	RSS-246, Issue 1, March 2019	Ultra-Low Power (ULP) Wireless Medical Capsule Endoscopy Devices Operating in the 430-440 MHz Band	
TC	RSS-247, Issue 2, February 2017	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	
TC	RSS-248 Issue 1, November 2021	Radio Local Area Network (RLAN) Devices Operating in the 5925-7125 MHz Band	
TC	RSS -251 Issue 2, July 2018	Field Disturbance Sensors in the Bands 46.7-46.9 GHz (Vehicular Radar) and 76-77 GHz (Vehicular and Airport Fixed Radar)	
TC	RSS-252 — Issue 1 September 2017	Intelligent Transportation Systems — Dedicated Short Range Communications (DSRC) — On-Board Unit (OBU)	
TC	RSS-287, Issue 2, March 2014	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)	
TC	RSS – 288, Issue 1, January 2012	Global Maritime Distress and Safety System (GMDSS)	
TC	RSS – 310, Issue 5, January 2020	Licence-exempt Radio Apparatus (All Frequency Bands): Category II Equipment	



Technical Field	Scope	Test Method(s)	Test area / reductions
<b>Radio Equipment and Systems</b>			
TC	RSS-102 measurement (RF Exp) Issue 5, March 2015 Amendment 1, Feb. 2021	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) (RF Exposure Evaluation)	
TC	RSS-102 measurement (NS), Issue 5, March 2015 Amendment 1, Feb. 2021	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) (Nerve Stimulation)	
TC	RSS-102 measurement (SAR), Issue 5 March 2015 Amendment 1, February 2021	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands), (Specific Absorptions Rate)	
TC	RSS-102 measurement (LPD) Issue 5, March 2015 Amendment 1, Feb. 2021	[Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands), (Local Power Density)]	

Flexibility according to DAkkS SD 0 002\_e (Accreditation with flexible scope of testing laboratories, calibration laboratories and medical laboratories) and EA-2/15 M: 2019 (EA Requirements for the Accreditation of Flexible Scopes).

**Abbreviations used:**

RSS Radio Standards Specification  
IEC International Electrotechnical Commission  
EMC Electromagnetic Compatibility  
TC Telecommunication