

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-21375-01-02 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 23.12.2020

**Date of issue:** 08.02.2021

Holder of certificate:

**IBL-Lab GmbH**  
**Heinrich-Hertz-Allee 7, 66386 St. Ingbert**

Tests in the fields:

**Electromagnetic Compatibility (EMC)**

**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.**

Section	Standard or Test procedure / issue date	Title of the Standard of Test procedure	Limitation of the Test procedure
<b>Basic Standards</b>			
EMC	IEC 61000-4-2:2008 DIN EN 61000-4-2 VDE 0847-4:2009	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	

*The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.*

*The certificate together with the annex reflects the status as indicated by the date of issue. The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

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EMC	IEC 61000-4-3:2006 +A1:2007+A2:2010 DIN EN 61000-4-3 VDE 0847-4-3:2011	Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	Emax=3V/m for devices of 1.5x1.5m Emax=10V/m for devices larger than 0.5x0.5m possible only according the procedure of independent windows according Annex H
EMC	IEC 61000-4-4:2012 DIN EN 61000-4-4 VDE 0847-4-4:2013	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test	Single-phase devices only
EMC	IEC 61000-4-5:2014+AMD1:2017 DIN EN 61000-4-5 VDE 0847-4-5:2019	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test	Single-phase devices only
EMC	IEC 61000-4-6:2013 DIN EN 61000-4-6 VDE 0847-4-6:2014-08	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	IEC 61000-4-8:2009 DIN EN 61000-4-8 VDE 0847-4-8:2010-11	Electromagnetic compatibility (EMC) – Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test	
EMC	IEC 61000-4-11:2004+AMD1:2017 DIN EN IEC 61000-4-11 VDE 0847-4-11:2019	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests	Single-phase devices only

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EMC	IEC 61000-6-1:2016 DIN EN IEC 61000-6-1 VDE 0839-6-1:2019	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments	Single-phase devices only
EMC	IEC 61000-6-2:2016 DIN EN IEC 61000-6-2 VDE 0839-6-2:2019	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments	Single-phase devices only
EMC	IEC 61000-6-3:2006+AMD1:2010 DIN EN 61000-6-3 VDE 0839-6-3:2011	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments	Emission on small devices (chap. 3.10) at a distance of antenna to device of 3m only
EMC	IEC 61000-6-4:2018 DIN EN 61000-6-4 VDE 0839-6-4:2011	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments	Emission on small devices (chap. 3.10) at a distance of antenna to device of 3m only
<b>Product Family Standards</b>			
EMC	IEC 61204-3:2016 DIN EN IEC 61204-3 VDE 0557-3:2018	Low-voltage switch mode power supplies – Part 3: Electromagnetic compatibility (EMC)	
EMC	IEC 61326-1:2012 DIN EN 61326-1:2013 VDE 0843-20-1:2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	Emission for 3m distance only
EMC	IEC 61058-1:2016 DIN EN IEC 61058-1 VDE 0630-1:2018-08	Switches for appliances – Part 1: General requirements	
EMC	IEC 62040-2:2016 DIN EN IEC 62040-2 VDE 0558-520:2019-04	Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements	Without Annex D.6 Immunity to low frequency signals

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EMC	DIN EN 50130-4 VDE 0830-1-4:2015-04	Electromagnetic compatibility (EMC) – Alarm systems – Part 4: Electromagnetic compatibility – Product family standards: Requirements for the interference immunity of system parts for fire alarm systems, burglary and assault alarm systems, video surveillance systems, access control systems and personal call systems	
EMC	DIN EN 50498 VDE 0879-498:2011-04	Electromagnetic compatibility – Product-family standards for electronic devices that are retrofitted in vehicles	
EMC	IEC CISPR 11:2015+AMD1:2016+AMD2:2019 DIN EN 55011 VDE 0875-11:2018-05	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Emission on small devices (chap. 3.10) at a distance of antenna to device of 3m only
EMC	IEC CISPR 14-1:2016/ISH1:2017/ISH2:2017 DIN EN 55014-1 VDE 0875-14-1:2018-08	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission	
EMC	IEC CISPR 14-2:2015 DIN EN 55014-2 VDE 0875-14-2:2016-01	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard	
EMC	IEC CISPR 22:2008/ISH1:2009/ISH2:2010/ISH3:2012 DIN EN 55022 VDE 0878-22:2011-12	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	Radiated disturbance measurements above 1 GHz with a device to antenna distance of 3m according to table 5 and 6 only

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EMC	IEC CISPR 24:2010+AMD1:2015 DIN EN 55024 VDE 0878-24:2016-05	Information technology equipment – Immunity characteristics – Limits and methods of measurement	
EMC	IEC CISPR 32:2015+AMD1:2019 DIN EN 55032 VDE 0878-32:2016-02	Electromagnetic compatibility of multimedia equipment – Emission requirements	Radiated disturbance measurements on small devices with a diameter=2m and height=2m only
EMC	IEC CISPR 35:2016 DIN EN 55035 VDE 0878-35:2018-04	Electromagnetic compatibility of multimedia equipment – Immunity requirements	
EMC	DIN EN 55103-1:2013-11;VDE 0875-103-1:2013-11	Electromagnetic compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Part 1: Emissions; German version EN 55103-1:2009 + A1:2012 English translation of DIN EN 55103-1(VDE 0875-103-1):2013-11	Radiated disturbance measurements above 1 GHz with a device to antenna distance of 3m according to table 5 and 6 only

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EMC	DIN EN 55103-2 VDE 0875-103-2:2010-07	Electromagnetic compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Part 2: Immunity	Without Annex A Immunity measurements against magnetic fields from 50Hz to 10kHz and without Annex B disturbance measurements against common mode interference on symmetrical signal- and control connections with connections wiring larger 10m at 50Hz to 10kHz
EMC	IEC 61000-3-2:2018 DIN EN IEC 61000-3-2 VDE 0838-2:2019-12	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)	Single-phase devices only
EMC	IEC 61000-3-3:2013+AMD1:2017 DIN EN 61000-3-3 VDE 0838-3:2014-03	Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection	Single-phase devices only
EMF	IEC 62233:2005 DIN EN 62233 VDE 0700-366:2008-11	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	
EMF	IEC 62311:2019 DIN EN 62311 VDE 0848-211:2008-09	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)	SAR excluded till 26.5 GHz

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EMF	IEC 62479:2010 DIN EN 62479 VDE 0848-479:2011-09	Assesment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	SAR excluded till 26.5 GHz
EMC	ETSI EN 301 489-1 V2.2.3 (2019-11)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	
EMC	ETSI EN 301 489-3 V2.1.1 (2019-03)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-4 V3.2.1 (2019-04)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-5 V2.2.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA); harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	

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EMC	ETSI EN 301 489-6 V2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU	
EMC	ETSI EN 301 489-9 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices; harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-12 V3.1.1 (2019-04)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS) harmonized Standard for electromagnetic compatibility	
EMC	ETSI EN 301 489-17 V3.1.1 (2017-02)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	



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EMC	ETSI EN 301 489-19 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-20 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS); Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-22 V1.3.1 (2003-11)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 22: Specific conditions for ground based VHF aeronautical mobile and fixed radio equipment	
EMC	ETSI EN 301 489-28 V1.1.1 (2004-09)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 28: Specific conditions for wireless digital video links	
EMC	ETSI EN 301 489-33 V2.2.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 33: Specific conditions for Ultra-Wideband (UWB) devices; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	

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EMC	ETSI EN 301 489-34 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones; Harmonized Standard covering the essential requirements of article 6 of Directive 2014/30/EU	
EMC	ETSI EN 301 489-51 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-52 V1.1.0 (2016-11)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable radio and ancillary equipment; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-53 V1.1.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment; Harmonized standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	