

Accreditation as a testing laboratory in accordance with DIN EN ISO/IEC 17025:2018: List of accredited activities within the flexible scope of accreditation

Name of conformity assessment body:	DEUTA-WERKE GmbH
Appendix to the accreditation certificate:	D-PL-12087-01-01
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Scope of application as set out in the schedule of documents (categories FLEX B and C)				
Scope No.	Matrix/Sample/Test item/Test object	Measurement variable/Test parameter/	Test type/Test methodology/ Measurement principle	Location
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- 1 Electromagnetic Compatibility (EMC)
1.1 Basic standards

Test procedures within the flexible scope				
Scope No.	Short title	Issue status	Title (modification/restriction, if applicable)	Location
1.1.1	DIN EN 61000-4-2 EN 61000-4-2	2009 2009	Electromagnetic compatibility (EMC) – part 4-2: testing and measurement techniques - electrostatic discharge immunity test Restriction: tabletop units only	Bergisch Gladbach
1.1.2	DIN EN 61000-4-3 EN 61000-4-3	2011 2006 + A1:2008 + A2:2010	Electromagnetic compatibility (EMC) – part 4-3: testing and measurement techniques - radiated, radio-frequency, electromagnetic field immunity test Restriction: desktop devices only, field strength ≤ 20 V/m	Bergisch Gladbach
1.1.3	DIN EN IEC 61000-4-3 EN IEC 61000-4-3	2021 2020	Electromagnetic compatibility (EMC) – part 4-3: testing and measurement techniques - radiated, radio-frequency, electromagnetic field immunity test Restriction: desktop devices only, field strength ≤ 20 V/m	Bergisch Gladbach

1.1.4	DIN EN 61000-4-4 EN 61000-4-4	2013 2012	Electromagnetic compatibility (EMC) – part 4-3: testing and measurement techniques - radiated, radio-frequency, electromagnetic field immunity test Restriction: table-top units only, single-phase	Bergisch Gladbach
1.1.5	DIN EN 61000-4-5 EN 61000-4-5	2019 2014 + A1:2017	Electromagnetic compatibility (EMC) – part 4-5: testing and measurement techniques - surge immunity test Limitation: Capacitive coupling and coupling via capacitors, pulse shape 1.2/50 μ s	Bergisch Gladbach
1.1.6	DIN EN 61000-4-6 EN 61000-4-6	2014 2014	Electromagnetic compatibility (EMC) – part 4-6: testing and measurement techniques - immunity to conducted disturbances, induced by radiofrequency fields Limitation: single-phase	Bergisch Gladbach
1.1.7	DIN EN 55016-2-1 EN 55016-2-1	2019 2014 + A1:2017	Specification for radio disturbance and immunity measuring apparatus and methods - part 2-1: methods of measurement of disturbances and immunity - conducted disturbance measurements Restriction: Mains connection: ≤ 16 A, single-phase	Bergisch Gladbach
1.1.8	DIN EN 55016-2-3 EN 55016-2-3	2019 2017	Specification for radio disturbance and immunity measuring apparatus and methods - part 2-3: methods of measurement of disturbances and immunity - radiated disturbance measurements Restriction: Partially compliant with standards, measurement distance: 3 m, $f \leq 6$ GHz, measurement in a fully anechoic chamber, single antenna height, measurement site attenuation $< \pm 6$ dB	Bergisch Gladbach
1.1.9	DIN EN 55016-2-3 EN 55016-2-3	2020 2017 + A1:2019	Specification for radio disturbance and immunity measuring apparatus and methods - part 2-3: methods of measurement of disturbances and immunity - radiated disturbance measurements Restriction: Partially compliant with standards, measurement distance: 3 m, $f \leq 6$ GHz, measurement in a fully anechoic chamber, single antenna height, measurement site attenuation $< \pm 6$ dB	Bergisch Gladbach

1.1.9	DIN EN 55016-2-3 EN 55016-2-3	2025 2017 + A1:2019 + A2:2023	Specification for radio disturbance and immunity measuring apparatus and methods - part 2-3: methods of measurement of disturbances and immunity - radiated disturbance measurements Restriction: Partially compliant with standards, measurement distance: 3 m, $f \leq 6$ GHz, measurement in a fully anechoic chamber, single antenna height, measurement site attenuation $< \pm 6$ dB	Bergisch Gladbach
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1.2 Produktfamiliennormen

Test procedures within the flexible scope				
Scope No.	Short title	Issue status	Title	Location
1.2.1	DIN EN 50121-3-2 EN 50121-3-2	2017 2016	Railway applications - electromagnetic compatibility - part 3-2: rolling stock - apparatus	Bergisch Gladbach
1.2.2	DIN EN 50121-3-2 EN 50121-3-2	2017 + A1:2020 2016 + A1:2019	Railway applications - electromagnetic compatibility - part 3-2: rolling stock - apparatus	Bergisch Gladbach
1.2.3	DIN EN 61326-1 EN 61326-1	2013 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - part 1: general requirements Limitations: Immunity without DIN EN 61000-4-8 , DIN EN 61000-4-11 Emission: Partially compliant with the standard, measurement distance: 3 m, $f \leq 6$ GHz, measurement in a fully anechoic chamber, single antenna height, test site attenuation $< \pm 6$ dB	Bergisch Gladbach

2 Environmental testing and equipment safety

2.1 Basic Standards for Electrical Equipment

Test procedures within the flexible scope				
Scope No.	Short title	Issue status	Title	Location
2.1.1	DIN EN 60068-2-1 EN 60068-2-1	2008 2007	Environmental testing - part 2-1: tests - test a: cold	Bergisch Gladbach

2.1.2	DIN EN 60068-2-2 EN 60068-2-2	2008 2007	Environmental testing - part 2-2: tests - test b: dry heat	Bergisch Gladbach
2.1.3	DIN EN 60068-2-6 EN 60068-2-6	2008 2008	Environmental testing - part 2-6: tests - test fc: vibration (sinusoidal) Limitations: Frequency range: 5 Hz to 2.5 kHz	Bergisch Gladbach
2.1.4	DIN EN 60068-2-14 EN 60068-2-14	2010 2009	Environmental testing - part 2-14: tests - test n: change of temperature	Bergisch Gladbach
2.1.5	DIN EN 60068-2-27 EN 60068-2-27	2010 2009	Environmental testing - part 2-27: tests - test ea and guidance: shock	Bergisch Gladbach
2.1.6	DIN EN 60068-2-30 EN 60068-2-30	2006 2005	Environmental testing - part 2-30: tests - test db: damp heat, cyclic (12 h + 12 h cycle)	Bergisch Gladbach

2.1.7	DIN EN 60068-2-64 EN 60068-2-64	2009 2008	Environmental testing - part 2-64: tests - test fh: vibration, broadband random and guidance Limitations: Frequency range: 5 Hz to 2.5 kHz	Bergisch Gladbach
2.1.8	DIN EN 60068-2-64 EN 60068-2-64	2020 2008 + A1:2019	Environmental testing - part 2-64: tests - test fh: vibration, broadband random and guidance Limitations: Frequency range: 5 Hz to 2.5 kHz	Bergisch Gladbach
2.1.9	DIN EN 60068-2-78 EN 60068-2-78	2014 2013	Environmental testing - part 2-78: tests - test cab: damp heat, steady state	Bergisch Gladbach
2.1.10	DIN EN 61373 EN 61373	2011 2010	Railway applications - rolling stock equipment - shock and vibration tests Limitations: Frequency range: 5 Hz to 2.5 kHz	Bergisch Gladbach
2.1.11	DIN EN ISO 4589-2 EN ISO 4589-2	2017 2017	Plastics - determination of burning behaviour by oxygen index - part 2: ambient-temperature test	Bergisch Gladbach
2.1.12	DIN EN 50124-1 EN 50124-1	2017 2017	Railway applications - insulation coordination - part 1: basic requirements - clearances and creepage distances for all electrical and electronic equipment	Bergisch Gladbach
2.1.13	DIN EN 50153 EN 50153	2018 2014 + A1:2017	Railway applications - rolling stock - protective provisions relating to electrical hazards Restrictions: Equipment, voltage ranges I and II	Bergisch Gladbach
2.1.14	DIN EN 60529 EN 60529	2014 1991 + A1:2000 + A2:2013	Degrees of protection provided by enclosures (ip code) Restrictions: IP1X to IP4X, IPX7, additional letters A, B, C, D	Bergisch Gladbach
2.1.15	DIN EN 60529 EN 60529	2019 1991 + A2:2013 + AC:2019	Degrees of protection provided by enclosures (ip code) Restrictions: IP1X to IP4X, IPX7, additional letters A, B, C, D	Bergisch Gladbach

2.2 Product family standards for electrical equipment

Test procedures within the flexible scope				
Scope No.	Short title	Issue status	Title	Location
2.2.1	DIN EN 50155 EN 50155	2018 2017	Railway applications – Rolling stock - Electronic equipment Restrictions: Type tests excluding salt spray testing	Bergisch Gladbach
2.2.2	DIN EN 50155 EN 50155	2022 2021	Railway applications – Rolling stock - Electronic equipment Restrictions: Type tests excluding salt spray testing	Bergisch Gladbach