

**The Appendix is an integral part of
Certificate of Accreditation No: 381/2024 of 06/08/2024**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

Vitesco Technologies Czech Republic s.r.o
CAB number 1719, Testing Laboratory
Na Rovince 873, Hrabová, 720 00 Ostrava

Testing laboratory locations:

- | | |
|---------------------------------|---|
| 1. Testing Laboratory O1 | Na Rovince 873, Hrabová, 720 00 Ostrava |
| 2. Testing Laboratory F | Na Rovince 879, Hrabová, 720 00 Ostrava |

1. **Testing Laboratory O1**

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Dry heat test Bb, Bd	ČSN EN 60068-2-2, except cl. 5.4; IEC 60068-2-2, except cl. 5.4	Components and products for motor vehicles	-
2	Cold test Ab, Ad	ČSN EN 60068-2-1:2008, except cl. 5.4; IEC 60068-2-1:2007, except cl. 5.4	Components and products for motor vehicles	-
3	Change of temperature test Na, Nb	ČSN EN 60068-2-14:2010, except cl. 9; IEC 60068-2-14:2009, except cl. 9; ISO 16750-4:2010, cl. 5.2	Components and products for motor vehicles	-
4	Damp heat test, cyclic Db	ČSN EN 60068-2-30:2006; IEC 60068-2-30:2005	Components and products for motor vehicles	-
5	Damp heat test, steady state Cab	ČSN EN 60068-2-78:2013; IEC 60068-2-78:2012	Components and products for motor vehicles	-
6	Resistance to damp heat test, cyclic	ČSN EN 60068-2-38:2010; IEC 60068-2-38:2009	Components and products for motor vehicles	-
7	Salt spray test	IEC 60068-2-11:1981; IEC 60068-2-11; DIN EN ISO 9227:2017; ISO 9227:2022	Components and products for motor vehicles	-
8	Degree of protection test – protection against water (IPX3, IPX4, IPX4K, IPX5, IPX6, IPX6K, IPX7, IPX9K)	ISO 20653:2013; ISO 20653; ISO 16750-4:2010; ISO 16750-4	Components and products for motor vehicles	-
9	Water splash test	ISO 16750-4:2010, cl. 5.4.2; ISO 16750-4, cl. 5.4.2	Components and products for motor vehicles	-
10	Rapid temperature change resistance test (air – water); Submersion test	ISO 16750-4:2003, cl. 5.4.3; ISO 16750-4:2010, cl. 5.4.3; ISO 16750-4, cl. 5.4.3	Components and products for motor vehicles	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
11	Mechanical shock Ea test	ČSN EN 60068-2-27:2010; IEC 60068-2-27:2008; ISO 16750-3, cl. 4.2	Components and products for motor vehicles	-
12	Free fall test	IEC 60068-2-31:2008; ISO 16750-3, cl. 4.3	Components and products for motor vehicles	-
13	Vibration test Fc: (sinusoidal)	ČSN EN 60068-2-6:2008; IEC 60068-2-6:2007; ISO 16750-3, cl. 4.1	Components and products for motor vehicles	-
14	Vibration test Fh: broadband random vibration	ČSN EN 60068-2-64:2009; IEC 60068-2-64:2008; ISO 16750-3, cl. 4.1	Components and products for motor vehicles	-
15	Vibration test Fi: Mixed mode	ČSN EN 60068-2-80:2005; IEC 60068-2-80:2005; ISO 16750-3, cl. 4.1	Components and products for motor vehicles	-
16	Degree of protection test – protection against dust (IP5KX, IP6KX)	ISO 20653:2013; ISO 20653; ISO 12103-1; ISO 16750-4:2010; ISO 16750-4	Components and products for motor vehicles	-

¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

³ the laboratory does not apply a flexible approach to the scope of accreditation

2. Testing Laboratory F

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Measurement of conducted emissions – voltage method	ČSN EN 55025:2009, cl. 6.2; ČSN EN 55025:2018, cl. 6.3; EN 55025, cl. 6.3; EN 55025:2008, cl. 6.2; CISPR 25:2008, cl. 6.2; CISPR 25:2016, cl. 6.3; CISPR 25:2021, cl. 6.3	Components and products for motor vehicles	-

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
2	Measurement of conducted emissions – current probe method	ČSN EN 55025:2009, cl. 6.3; ČSN EN 55025:2018, cl. 6.4; EN 55025, cl. 6.4; EN 55025:2008, cl. 6.3; CISPR 25:2008, cl. 6.3; CISPR 25:2016, cl. 6.4; CISPR 25:2021, cl. 6.4	Components and products for motor vehicles	-
3	Measurement of radiated emissions – ALSE method	ČSN EN 55025:2009, cl. 6.4 ČSN EN 55025:2018, cl. 6.5 EN 55025, cl. 6.5; EN 55025:2008, cl. 6.4; CISPR 25:2008, cl. 6.4; CISPR 25:2016, cl. 6.5; CISPR 25:2021, cl. 6.5	Components and products for motor vehicles	-
4	Test of immunity to radiated RF field – ALSE method	ISO 11452-1:2015; ISO 11452-2:2004; ISO 11452-2:2019	Components and products for motor vehicles	-
5	Test of immunity to RF field – BCI method	ISO 11452-1:2015; ISO 11452-4:2011 except TWC method; ISO 11452-4:2020 except TWC method	Components and products for motor vehicles	-
6	Test of immunity to magnetic field	ISO 11452-1:2015; ISO 11452-8:2007, cl. 6.5; ISO 11452-8:2015, cl. 7.5	Components and products for motor vehicles	-
7	Test of immunity to electrostatic discharge	ISO 10605:2008, cl. 8, 9; ISO 10605:2023	Components and products for motor vehicles	-
8	Test of immunity to pulses and transients	ISO 7637-1:2015; ISO 7637-2:2011, cl. 4.4; ISO 7637-3:2007; ISO 7637-3:2016	Components and products for motor vehicles	-
9	Test of immunity to electrical loads	ISO 16750-1:2006; ISO 16750-1:2018; ISO 16750-1:2023; ISO 16750-2:2012; ISO 16750-2:2023, except cl. 4.4	Components and products for motor vehicles	-

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Ordinal number¹	Test procedure / method name	Test procedure / method identification²	Tested subject	Degrees of freedom³
10	Measurement of voltage transient emissions	ISO 7637-1:2015; ISO 7637-2:2011, cl. 4.3	Components and products for motor vehicles	-

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Explanations:

ALSE	Absorber lined shielded enclosure
BCI	Bulk current injection
CISPR	International standard published by the International Special Committee on Radio Interference
IP	Ingress protection
TWC	Tubular wave coupler

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "