

**The Appendix is an integral part of  
Certificate of Accreditation No. 69/2023 of 13. 2. 2023**

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

**AV R&D, s.r.o.**  
Test Center AV R&D  
Pardubická 179, 537 01 Chrudim

*The laboratory provides expert opinions and interprets test results.*

**Tests:**

Ordinal Number <sup>1</sup>	Test procedure/ method name	Test procedure/method identification <sup>2</sup>	Tested object
1*	Vibration test of resistance, durability and functionality	SOP01 (ČSN EN 60068-2-6, ČSN EN 60068-2-27, ČSN EN 60068-2-47, ČSN EN 60068-2-57, ČSN EN 60068-2-64, ČSN EN 60068-2-80, ČSN EN 61373, IEC 61373, ČSN EN 50125-3, p. 4.13, ČSN EN 50155 ed.4, p. 13.4.11, ČSN EN 50155 ed.5, p. 13.4.10, VW 80200-1, VW 80200-2, ČOS 999902 method 401 except Appendix 7E, ČOS 999902 method 403, MIL-STD-810H method 514, 516)	Mechanical and electrotechnical parts and assemblies
2*	Temperature test of resistance to cold or hot	SOP02 (ISO 16750-4, p. 5.1.1. and 5.1.2., ČSN EN 60068-2-53, Appendix A, Fig. A1, A2, ČSN EN 60068-2-1, ČSN EN 60068-2-2, ČSN EN 60068-2-14, test Nb, ČSN EN 50125-3, p. 4.3., ČSN EN 50155, p. 13.4.4., p. 13.4.5., p. 13.4.6., VW 80200-2 chapter 5, ČOS 999905 method 302, ČOS 999905 method 303, MIL-STD-810H, method 501, 502)	Mechanical and electrotechnical parts and assemblies

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Ordinal Number <sup>1</sup>	Test procedure/ method name	Test procedure/method identification <sup>2</sup>	Tested object
3*	Vibration measurement and analysis	SOP03 (ČSN EN 61373, IEC 61373, VW 80200-1, VW 80200-2, ČSN EN 60068-2-6, ČSN EN 60068-2-57, ČSN EN 60068-2-64, ČSN EN 60068-2-80, manual NI PXIe-4496, manual NI PXIe-6363, manual NI USB-4432)	Mechanical and electrotechnical parts and assemblies, vehicles
4*	Strain gauge - static and dynamic measurements of relative elongation with subsequent calculation of forces, moments, stresses, masses	SOP04 (manual CATMAN EASY, manual QUANTUM <sup>X</sup> )	Mechanical and electrotechnical parts and assemblies, vehicles
5*	Measurement of physical quantities – force measurement	SOP05 p. 1 to 3, 4.1, 5 to 10 (manual CATMAN EASY, manual QUANTUM <sup>X</sup> , manual NI PXIe-4496, manual NI PXIe-6363, manual NI USB-4432)	Mechanical and electrotechnical parts and assemblies, vehicles
6*	Measurement of physical quantities – displacement measurement	SOP05 p. 1 to 3, 4.2, 5 to 10 (manual CATMAN EASY, manual QUANTUM <sup>X</sup> , manual NI PXIe-4496, manual NI PXIe-6363, manual NI PXIe-6612, manual NI USB-4432)	Mechanical and electrotechnical parts and assemblies, vehicles
7*	Measurement of physical quantities – speed measurement	SOP05 p. 1 to 3, 4.3, 5 to 10 (manual NI PXIe-4496, manual NI PXIe-6363, manual NI USB-4432)	Mechanical and electrotechnical parts and assemblies, vehicles
8*	Measurement of physical quantities – pressure measurement	SOP05 p. 1 to 3, 4.4, 5 to 10 (manual CATMAN EASY, manual QUANTUM <sup>X</sup> , manual NI PXIe-4496, manual NI PXIe-6363, manual NI USB-4432)	Mechanical and electrotechnical parts and assemblies, vehicles

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<b>Ordinal Number<sup>1</sup></b>	<b>Test procedure/ method name</b>	<b>Test procedure/method identification<sup>2</sup></b>	<b>Tested object</b>
9*	Measurement of physical quantities – temperature measurement	SOP05 p. 1 to 3, 4.5, 5 to 10 (manual CATMAN EASY, manual QUANTUM <sup>x</sup> , manual NI PXIe-6363, manual NI USB-4432)	Mechanical and electrotechnical parts and assemblies, vehicles
10*	Measurement of physical quantities – measurement of revolutions	SOP05 p. 1 to 3, 4.6, 5 to 10 (manual CATMAN EASY, manual QUANTUM <sup>x</sup> , manual NI PXIe-4496, manual NI PXIe-6363, manual NI PXIe-6612, manual NI USB-4432)	Mechanical and electrotechnical parts and assemblies, vehicles
11*	Measurement of physical quantities – noise measurement	SOP05 p. 1 to 3, 4.7, 5 to 10 (manual NI PXIe-4496, manual NI USB-4432)	Mechanical and electrotechnical parts and assemblies, vehicles
12*	Measurement of physical quantities – angle measurement	SOP05 p. 1 to 3, 4.8, 5 to 10 (manual CATMAN EASY, manual QUANTUM <sup>x</sup> )	Mechanical and electrotechnical parts and assemblies, vehicles
13*	Measurement of electrical quantities – voltage measurement	SOP06 p. 1 to 3, 4.1, 5 to 10 (manual Fluke 179 digital multimeter manual CATMAN EASY, manual QUANTUM <sup>x</sup> )	Mechanical and electrotechnical parts and assemblies, vehicles
14*	Measurement of electrical quantities – current measurement	SOP06 p. 1 to 3, 4.2, 5 to 10 (manual Fluke 179 digital multimeter, manual CATMAN EASY, manual QUANTUM <sup>x</sup> )	Mechanical and electrotechnical parts and assemblies, vehicles
15*	Measurement of electrical quantities – resistance measurement	SOP06 p. 1 to 3, 4.3, 5 to 10 (manual Fluke 179 digital multimeter)	Mechanical and electrotechnical parts and assemblies, vehicles
16*	Measurement of electrical quantities – frequency measurement	SOP06 p. 1 to 3, 4.4, 5 to 10 (manual Fluke 179 digital multimeter, manual CATMAN EASY, manual QUANTUM <sup>x</sup> )	Mechanical and electrotechnical parts and assemblies, vehicles

<sup>1</sup> asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises

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<sup>2</sup> 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 edition of specified procedure is used (including any changes)

Explanatory notes:

VW	–	Volkswagen Standard
ČOS	–	Czech Defense Standard
Manual NI	–	National Instruments Manual
MIL-STD	–	Military standard USA