

Annex to declaration of accreditation (scope of accreditation)  
 Normative document: EN ISO/IEC 17025:2017  
 Registration number: **L 597**

of **Prodrive Technologies Innovation Services B.V.**  
**Laboratory**

This annex is valid from: **06-04-2022** to **01-03-2023**

Replaces annex dated: **09-03-2022**

**Location(s) where activities are performed under accreditation**

**Head Office**

Science Park Eindhoven 5501  
 5692 EM  
 Son  
 The Netherlands

Location	Abbreviation/ location code
Science Park Eindhoven 5501 5692 EM Son The Netherlands	SO

No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
<b>EMC.E</b>	<b>Electromagnetic Compatibility Emission (EMC) - Emission</b>			
<b>EMC.E.01</b>	Electronic and/or electric apparatus and sub-assemblies	Conducted Emissions Voltage method (AN) 150 kHz - 30 MHz	CISPR11 / EN55011, CISRP22 / EN55022, CISPR32 / EN55032, CISPR 16 / EN55016 (Discontinuous disturbance not included)	SO
<b>EMC.E.02</b>		Conducted Emissions Voltage method (AMN) 150 kHz – 30 MHz	CISPR11 / EN55011, CISRP22 / EN55022, CISPR32 / EN55032, CISPR 16 / EN55016 (Discontinuous disturbance not included)	SO

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

<sup>1</sup> If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).  
 If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
<b>EMC.E.03</b>	Electronic and/or electric apparatus and sub-assemblies	Conducted Emissions Voltage method (LISN) 150 kHz – 30 MHz	CISPR11 / EN55011, CISRP22 / EN55022, CISPR32 / EN55032, CISPR 16 / EN55016 (Discontinuousdisturbance not included)	SO
<b>EMC.E.14</b>		Radiated Emissions Full Anechoic Chamber Method (FACM) 1 GHz - 6 GHz	CISPR11 / EN55011, CISRP22 / EN55022, CISPR32 / EN55032, CISPR 16 / EN55016 (Discontinuousdisturbance not included)	SO
<b>EMC.E.15</b>		Radiated Emissions Semi Anechoic Chamber Method (SACM) 30 MHz - 1 GHz	CISPR11 / EN55011, CISRP22 / EN55022, CISPR32 / EN55032, CISPR 16 / EN55016 (Discontinuousdisturbance not included)	SO
<b>EMC.I</b>	<b>Electromagnetic Compatibility Immunity (EMC) - Immunity / susceptibility</b>			
<b>EMC.I.01</b>	Electronic and/or electric apparatus and sub-assemblies	Conducted RF Immunity Electromagnetic 10 Vrms 150 kHz to 80 MHz	IEC-EN61000-4-6	SO
<b>EMC.I.12</b>		Radiated Immunity Electric Field 80 MHz - 6 GHz: 10 V/m	IEC-EN61000-4-3	SO
<b>EMC.I.21</b>		Electrostatic discharge Immunity (ESD) Contact discharge 0 - 30 kV Air discharge 0 – 30 kV	IEC-EN61000-4-2	SO
<b>EMC.I.22</b>		Electrical fast transient / burst Immunity (EFT) 1 phase / 3 phase / other lines 0.25 - 6 kV	IEC-EN61000-4-4	SO
<b>EMC.I.23</b>		Surge Immunity 1 phase / 3 phase / other lines 0.5 - 6 kV	IEC-EN61000-4-5	SO

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No.	Material or product	Type of activity <sup>1</sup>	Internal reference number	Location
<b>EMC.I.24</b>	Electronic and/or electric apparatus and sub-assemblies	Power frequency magnetic field Immunity 50/60 Hz 1 – 140 A/m	IEC-EN61000-4-8	SO
<b>EMC.I.26</b>		Voltage dips, short interruptions and voltage variations Immunity 1 phase / 3 phase Angle(s) 0...359°	IEC-EN61000-4-11	SO

**Electromagnetic Compatibility (EMC) - Emission - Automotive**

<b>EMC.I.21</b>	Electronic and/or electric apparatus and sub-assemblies	Electrostatic discharge Immunity (ESD) Contact discharge 0 - 30 kV  Air discharge 0 – 30 kV	ISO 10605	SO
<b>EMC.I.27</b>	Electronic and/or electric apparatus and sub-assemblies	Electric transient transmission via lines other than supply lines Immunity 150V 10kHz RF (repetitive frequency)	ISO 7637-3	SO
<b>EMC.I.39</b>		Electric transient transmission along supply lines Immunity 150V 10kHz RF (repetitive frequency)	ISO 7637-3	SO

**Temperature & Humidity Testing**

1	Electronic and/or electric apparatus and subassemblies and parts	Environmental testing: Cold ( $\geq -50^{\circ}\text{C}$ )	6001-1252-83xx NEN-EN-IEC 60068-2-1, VW80000 K01, K03, ISO16750-4 5.1.1	SO
2		Environmental testing: Dry heat ( $\leq 120^{\circ}\text{C}$ )	6001-1252-83xx NEN-EN-IEC 60068-2-2, VW80000 K01, ISO16750-4 5.1.2	SO
3		Environmental testing: Temperature performance ( $\leq 120^{\circ}\text{C}$ )	6001-1252-83xx NEN-EN-IEC 60068-2-2	SO
4		Incremental temperature test ( $\geq -50^{\circ}\text{C} \leq 120^{\circ}\text{C}$ )	6001-1252-83xx VW80000 K02, ISO16750-4 5.2	SO
5		Repainting temperature test ( $\geq 110^{\circ}\text{C} \leq 130^{\circ}\text{C}$ )	6001-1252-83xx VW80000 K04	SO

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6		Change of temperature test ( $\geq -50\text{ °C} \leq 120\text{ °C} \leq 30\text{s}$ )	6001-1252-83xx NEN-EN-IEC 60068-2-14 (Na), VW80000 L03, ISO16750-4 5.3	SO
7		Change of temperature test ( $\geq -50\text{ °C} \leq 105\text{ °C} \leq 15\text{ °C/min}$ )	6001-1252-83xx NEN-EN-IEC 60068-2-14 (Nb), VW80000 L03	SO
8		Environmental testing: Damp heat cyclic ( $\leq 55\text{ °C} \geq 95\% \text{ RH}$ )	6001-1252-83xx NEN-EN-IEC 60068-2-30, VW80000 K08, ISO16750-4 5.6.2.2	SO
9	Electronic and/or electric apparatus and subassemblies and parts	Environmental testing: Composite temperature/humidity cyclic (with frost) ( $\geq -10\text{ °C} \leq 65\text{ °C}, \geq 80\% \text{ RH} \leq 96\% \text{ RH}$ )	6001-1252-83xx NEN-EN-IEC 60068-2-38, VW80000 K09, ISO16750-4 5.6.2.3	SO
10		Environmental testing: Damp heat steady state ( $\leq 40\text{ °C} \geq 95\% \text{ RH}$ )	6001-1252-83xx NEN-EN-IEC 60068-2-78, VW80000 K14, ISO16750-4 5.7	SO

#### Ingress Protection Testing

11	Electronic and/or electric apparatus and subassemblies and parts	Degrees of protection provided by enclosure for the following IP codes: IP0x, IP1x, IP2x, IP3x, IP4x, IPx0, IPxxA, IPxxB, IPxxC, IPxxD	6001-1252-81xx IEC 60529, ISO 20653	SO
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**Product standards containing one or more of the above mentioned test activities are listed below.**  
**Accreditation is only applicable to the tests mentioned above.**

No.	Material or product	Activity reference number	Product Standard	Location
<b>EMC.S.02</b>	<b>Automotive</b>			
	Electronic and/or electric apparatus and subassemblies and parts	EMC.E.01, EMC.E.02, EMC.E.03, EMC.I.01, EMC.I.15, EMC.I.21, EMC.I.22, EMC.I.23, EMC.E.xx, EMC.E.01, EMC.E.05, EMC.I.02, EMC.I.21, EMC.I.xx, EMC.I.27	TL81000, UNECE R10	SO

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<b>EMC.S.03</b>	<b>Electronic and electrical equipment</b>			
	Electronic and/or electric apparatus and subassemblies and parts	EMC.E.01, EMC.E.02, EMC.E.03, EMC.E.14, EMC.E.15, EMC.I.01, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.26	IEC-EN61000-6-3, IEC-EN61000-6-4, IEC-EN 60601-1-2, CISPR 11, CISPR 22, CISPR 32, IEC-EN61326-1, IEC-EN 61851-21-2, IEC-EN 61851-21-2, EN12015, NEN-IEC 60533, NEN-EN 50124-4, NEN-EN 50121-3-2, CISPR 24, CISPR 35, IEC 60601-1-2, 61000-6-1, 61000-6-2, EN12016, IEC-EN61326-1, IEC-EN 61326-2-6, IEC-EN61800-3, IEC-EN 61851-21-2, EN 50412-2-1, NEN-EN-IEC 61000-6-7, IEC-EN 61851-21-2, NEN-IEC 60533, NEN-EN 50121-4, NEN-EN 50121-1, NEN-EN 50124-4, NEN-EN 50121-3-2, NEN-EN 50065-2-1, NEN-EN-IEC 61547, EN55035, EN55032, EN55011, EN55022	SO