



**CERTIFIKAT O ECE-HOMOLOGACIJI**  
**ECE COMPONENT TYPE-APPROVAL CERTIFICATE**

Sporočilo o podeljeni homologaciji za tip vozila glede na tip nadomestnega sistema za dušenje zvoka NORESS ali sestavnega dela v skladu s Pravilnikom št. 92 R, Amandma 02, Dodatek 00

*Communication concerning approval granted of a vehicle type with regard to a type of NORESS or component thereof pursuant to Regulation No. 92 R, Amendment 02, Supplement 00*

Homologacijska št.: **E26 92 R 02/00 8166**  
*Approval No.:*

Razširitev št.: **00**  
*Extension No.:*

1. Blagovno ime ali znamka motocikla:  
*Trade name or mark of the motorcycle:* KTM
2. Tip motocikla:  
*Motorcycle type:* KTM V2 Adventure (e1\*168/2013\*00274\*)
3. Ime in naslov proizvajalca:  
*Manufacturer's name and address:* KTM AG  
Stallhofnerstraße 3  
AT-5230 Mattighofen  
Austria
4. Če pride v poštev, ime in naslov  
predstavnika proizvajalca:  
*If applicable, name and address of  
manufacturer's representative:* /
5. Motor  
*Engine*
  - 5.1. Proizvajalec:  
*Manufacturer:* KTM AG
  - 5.2. Tip:  
*Type:* glej poročilo o preskusu 21-00003-CM-GBM-00  
*see the test report 21-00003-CM-GBM-00*
  - 5.3. Model:  
*Model:* /
  - 5.4. Največja nazivna moč:  
*Rated maximum net power:* 118 kW / 9000 min<sup>-1</sup>
  - 5.5. Vrsta motorja:  
*Kind of engine:* na prisilni vžig  
*positive-ignition*

---

5.6.	Način delovanja: <i>Cycles:</i>	štiritaktni <i>four-stroke</i>
5.7.	Prostornina valja: <i>Cylinder capacity:</i>	1301 cm <sup>3</sup>
6.	Menjalnik <i>Transmission</i>	
6.1.	Vrsta menjalnika: <i>Type of transmission:</i>	ročni menjalnik <i>manual transmission</i>
6.2.	Število prestav: <i>Number of gears:</i>	6 prestav <i>6 gears</i>
7.	Oprema <i>Equipment</i>	
7.1.	Dušilnik zvoka <i>Exhaust silencer</i>	
7.1.1.	Proizvajalec ali pooblaščen zastopnik (če obstaja): <i>Manufacturer or authorized representative (if any):</i>	AKRAPOVIC D.D.
7.1.2.	Model: <i>Model:</i>	/
7.1.3.	Tip: <i>Type:</i>	M-HHA001
	v skladu s številko risbe: <i>in accordance with drawing No.:</i>	M-HHA001_HOM_Muffler
7.2.	Dušilnik zvoka na sesalni strani <i>Intake silencer</i>	originalen <i>original</i>
7.2.1.	Proizvajalec ali pooblaščen zastopnik (če obstaja): <i>Manufacturer or authorized representative (if any):</i>	AKRAPOVIC D.D.
7.2.2.	Model: <i>Model:</i>	/
7.2.3.	Tip: <i>Type:</i>	/
	v skladu s številko risbe: <i>in accordance with drawing No.:</i>	/
8.	Uporabljene prestave za izvajanje meritev v vožnji: <i>Gears used for test of motor cycle in motion:</i>	glej poročilo o preskusu <i>see the test report</i>
9.	Končno prestavno razmerje(a): <i>Final drive ratio(s):</i>	1,9 / 2,471

---

10. ECE homologacijska številka pnevmatik(e): <i>ECE type approval number of tyre(s):</i>	ni navedeno <i>no specification</i>
Če ni na voljo, navesti naslednje podatke: <i>If not available, the following information shall be provided:</i>	
10.1. Proizvajalec pnevmatik: <i>Tyre manufacturer:</i>	1. os: Bridgestone, 2. os: Bridgestone <i>1<sup>st</sup> axle: Bridgestone, 2<sup>nd</sup> axle: Bridgestone</i>
10.2. Trgovska oznaka(e) tipa pnevmatik (po oseh), (npr: tovarniška oznaka, hitrostni razred in razred nosilnosti):  <i>Commercial description(s) of the type of tyre (by axle), (e.g. trade name, speed index, load index):</i>	1. os: Battlax AdventureCross AX41 Hitrostni razred: Q, Razred nosilnosti: 54 2. os: Battlax AdventureCross AX41 Hitrostni razred: Q, Razred nosilnosti: 70  <i>1<sup>st</sup> axle: Battlax AdventureCross AX41 Speed index: Q, Load index: 54 2<sup>nd</sup> axle: Battlax AdventureCross AX41 Speed index: Q, Load index: 70</i>
10.3. Velikost pnevmatik (po oseh):  <i>Tyre size (by axle):</i>	1. os: 90/90 - 21 2. os: 150/70 B18 <i>1<sup>st</sup> axle: 90/90 - 21 2<sup>nd</sup> axle: 150/70 B18</i>
10.4. Druge homologacijske številke (če so na voljo): <i>Other type approval number (if available):</i>	/
11. Mase <i>Masses</i>	
11.1. Največja tehnično dovoljena masa: <i>Maximum permissible gross weight:</i>	450 kg
11.2. Testna masa: <i>Test mass:</i>	316,5 kg
11.3. Indeks razmerja moči in mase (PMR): <i>Power to mass ratio index (PMR):</i>	374,6
12. Dolžina vozila: <i>Vehicle length:</i>	2,25 m
12.1. Referenčna dolžina $l_{ref}$ : <i>Reference length <math>l_{ref}</math>:</i>	2,25 m
13. Hitrost vozila pri meritvah v prstavi (i) <i>Vehicle speeds of measurements in gear (i)</i>	
13.1. Hitrost vozila na začetku pospeševalnega cikla (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i):</i>	31,4 km/h
13.2. Dolžina pred začetkom pospeševanja za prestavo (i): <i>Pre-acceleration length for gear (i):</i>	0 m

---

13.3. Hitrost vozila $v_{PP}$ (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed <math>v_{PP}</math> (average of 3 runs) for gear (i):</i>	50,2 km/h
13.4. Hitrost vozila $v_{BB}$ (povprečje 3 pospeševanj) za prestavo (i): <i>Vehicle speed <math>v_{BB}</math> (average of 3 runs) for gear (i):</i>	64,5 km/h
14. Hitrosti vozila pri meritvah v prestavi (i+1) (če pride v poštev) <i>Vehicle speeds of measurements in gear (i+1) (if applicable)</i>	
14.1. Hitrost vozila na začetku pospeševalnega cikla (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed at the beginning of the period of acceleration (average of 3 runs) for gear (i+1):</i>	38,4 km/h
14.2. Dolžina pred začetkom pospeševanja za prestavo (i+1): <i>Pre-acceleration length for gear (i+1):</i>	0 m
14.3. Hitrost vozila $v_{PP}$ (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed <math>v_{PP}</math> (average of 3 runs) for gear (i+1):</i>	49,2 km/h
14.4. Hitrost vozila $v_{BB}$ (povprečje 3 pospeševanj) za prestavo (i+1): <i>Vehicle speed <math>v_{BB}</math> (average of 3 runs) for gear (i+1):</i>	60,3 km/h
15. Pospeški so izračunani med linijami AA' in BB'/PP' in BB' <i>Accelerations are calculated between lines AA' and BB'/PP' and BB'</i>	
15.1. Opis delovanja naprav za stabilizacijo pospeševanja (če pride v poštev): <i>Description of functionality of devices used to stabilize the acceleration (if applicable):</i>	ne pride v poštev <i>not applicable</i>
16. Ravni hrupa v vožnji <i>Noise levels of moving vehicle</i>	
16.1. Rezultati merjenja pri polnem plinu $L_{wot}$ : <i>Wide-open-throttle test result <math>L_{wot}</math>:</i>	82,5 dB(A)
16.2. Rezultati merjenja v vožnji $L_{crs}$ : <i>Constant speed test results <math>L_{crs}</math>:</i>	73,3 dB(A)
16.3. Delni faktor moči $k_p$ : <i>Partial power factor <math>k_p</math>:</i>	0,52
16.4. Končni rezultat merjenja $L_{urban}$ : <i>Final test result <math>L_{urban}</math>:</i>	77,7 dB(A)

---

17. Raven hrupa v mirovanju  
*Noise level of stationary vehicle*
- 17.1. Pozicija in smer mikrofona  
(skladno z dodatkom 2, Priloga 3,  
pravilnika ECE 41 R, amandma 04):  
*Position and orientation of microphone  
(according to Appendix 2 of Annex 3 of 04  
series of regulation No. 41):*
- 17.2. Rezultat merjenja v mirovanju:  
*Test result for stationary test:*
18. Dodatne določbe za emisije hrupa:  
*Additional sound emission provisions:*
19. Referenčna skladnost podatkov v uporabi  
*In-use compliance reference data*
- 19.1. Za meritev izbrana prestava (i) ali,  
izbrana lega izbirnika prestave,  
pri vozilih z varibalinim menjalnikom:  
*Gear (i) or, for vehicles tested with non-locked  
gear ratios, the position of the gear selector chosen  
for the test:*
- 19.2. Dolžina pred začetkom pospeševanja  $l_{PA}$ :  
*Pre-acceleration length  $l_{PA}$ :*
- 19.3. Hitrost vozila na začetku pospeševalnega cikla  
(povprečje 3 pospeševanj) za prestavo (i):  
*Vehicle speed at the beginning of the period  
of acceleration (average of 3 runs) for gear (i):*
- 19.4. Raven zvočnega tlaka  $L_{wot(i)}$ :  
*Sound pressure level  $L_{wot(i)}$ :*
20. Datum predložitve vozila v postopek homologacije:  
*Date of submission of vehicle for approval:*

glej točko 3.5.3. poročila o preskusu  
21-00003-CM-GBM-00

see point 3.5.3. of the test report  
21-00003-CM-GBM-00

91 dB(A) / 4500 min<sup>-1</sup>

glej točko 3.5.3. poročila o preskusu  
21-00003-CM-GBM-00 in  
priložene risbe  
see point 3.5.3. of the test report  
21-00003-CM-GBM-00 and  
attached drawings

3

3<sup>rd</sup> gear

0 m

31,4 km/h

82,5 dB(A)

01.12.2020

21. Tehnična služba odgovorna za homologacijske preskuse:  
*Technical service responsible for conducting approval tests:* TÜV SÜD Auto Service GmbH  
Westendstraße 199  
D-80686 München  
Germany
22. Datum poročila o preskusu, ki ga je izdala ta služba:  
*Date of test report issued by that Service:* 22.02.2021
23. Številka poročila o preskusu, ki ga je izdala ta služba:  
*Number of test report issued by that Service:* 21-00003-CM-GBM-00
24. Homologacija:  
*Approval:* **podeljena**  
**granted**
25. Mesto homologacijske oznake na vozilu:  
*Position of approval mark on the vehicle:* vgravirano z laserjem / tablica  
pritrjena s kovicami  
*engraved by laser / plate fixed with rivets*
26. Kraj:  
*Place:* 1000 LJUBLJANA
27. Datum:  
*Date:* 08.03.2021
28. Podpis:  
*Signature:*   
mag. Tomaž Svetličič, univ. dipl. inž.  
vodja sektorja za vozila
29. Temu sporočilu je priložen seznam dokumentov, ki so deponirani pri homologacijskem organu, ki je odobril to homologacijo in jih je na zahtevo mogoče dobiti:  
**glej kazalo opisne dokumentacije št. E8166 Rev.00**  
*The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request:*  
**see index to information package No E8166 Rev.00**



Ta homologacija se uporablja za tip serijsko izdelanih neoriginalnih nadomestnih sistemov za dušenje zvoka (RESS) ali njegovih sestavnih delov pod naslednjimi pogoji:


Posamezni proizvodi iz serijske proizvodnje morajo ustrezati najmanj vsem zahtevam Pravilnika št. 92 R, Amandma 02, Dodatek 00, "Enotni pogoji za homologiranje neoriginalnih nadomestnih sistemov za dušenje zvoka (RESS) za motorna kolesa, mopede in trikolesna vozila".

Priloženo poročilo o preskusu in risbe so sestavni del te homologacije.

Vsak sestavni del neoriginalnega nadomestnega sistema za dušenje zvoka, vendar ne deli in cevi za vgradnjo, mora biti čitljivo in trajno označen z:

- znamko (tovarniškim imenom ali oznako proizvajalca),
- trgovskim imenom,
- homologacijsko oznako.

Temu tipu proizvoda se dodeli naslednja homologacijska oznaka:

 92 R - 02 8166

Homologacijska oznaka na proizvodu mora po izvedbi in velikosti ustrezati zahtevam Pravilnika št. 92 R.02.

S tem homologacijskim znakom so lahko označeni samo tisti proizvodi, ki v celoti ustrezajo homologacijski dokumentaciji.

Homologacijska oznaka na proizvodu mora biti nameščena na mestu, ki je označeno v homologacijski dokumentaciji. Mesto homologacijske oznake mora biti izbrano tako, da je oznaka jasno čitljiva tudi po vgradnji v vozilo.

Proizvod je lahko označen tudi s tujo homologacijsko ali drugo oznako, če s tem ni motena razpoznavnost in čitljivost homologacijske oznake, ki jo je dodelil slovenski homologacijski organ.

Na proizvodu ne sme biti oznak, ki bi lahko privedle do zamenjave z uradno dodeljeno oznako.

Kakršnekoli spremembe na proizvodu so dovoljene samo na podlagi posebnega dovoljenja homologacijskega organa.

Veljavnost homologacije preneha z vrnitvijo ali z odvzemom. Homologacija se odvzame, če pogoji za podelitev in obstoj homologacije ne obstajajo več, če lastnik homologacije krši obveznosti, povezane s homologacijo, oziroma če se ugotovi, da homologirani proizvod ne ustreza več veljavnim predpisom.

Proizvajalec je dolžan stalno kontrolirati kakovost homologiranega proizvoda in njegovo skladnost s homologacijsko dokumentacijo. O tej kontroli je dolžan voditi evidenco in omogočiti vpogled v zapise nadzornemu organu, ki ga določi homologacijski organ. V primeru ugotovitve neskladnosti s homologacijsko dokumentacijo je proizvajalec dolžan o tem takoj obvestiti homologacijski organ.

Homologacijski organ lahko kadarkoli preverja pravilno izvajanje pooblastil, dodeljenih s to homologacijo, in v ta namen tudi izbira vzorce za ponovni preskus. Stroške takšnih pregledov in presoje skladnosti proizvodnje, se zaračunajo proizvajalcu.

Vsako spremembo oznake proizvajalca, naslova ali proizvodne tovarne oziroma pri homologaciji imenovane pooblaščen osebe je treba takoj sporočiti homologacijskemu organu.

Pravice, podeljene s to homologacijo, so neprenosljive. Pravice tretjih s to homologacijo niso prizadete.

V primerih, da se proizvodnja ali prodaja proizvoda ne začne v roku enega leta od podelitve homologacije, da se proizvodnja ali prodaja prekine za več kot eno leto oziroma, da se predvideva taka prekinitve, je o tem treba takoj obvestiti homologacijski organ.

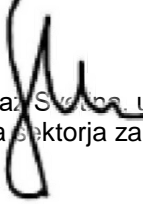
O začetku proizvodnje ali začetku prodaje oziroma njihovem ponovnem začetku je treba obvestiti homologacijski organ najkasneje v enem mesecu.

Neupoštevanje zgoraj navedenih določil lahko povzroči odvzem homologacije in se kazensko preganja.

Pravno razlago v zvezi s to homologacijo lahko daje samo homologacijski organ.

08.03.2021



  
mag. Tomaz Svetina, univ. dipl. inž.  
vodja sektorja za vozila



*This Approval shall apply to a type of non-original replacement exhaust silencing systems (RESS) or its components from serial production under the following conditions:*

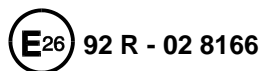
*Individual products from serial production shall comply at least with all requirements set out in the Regulation No. 92 R, Amendment 02, Supplement 00 "Uniform provisions concerning the approval of non-original replacement exhaust silencing systems (RESS) for motorcycles, mopeds and three-wheeled vehicles".*

*The attached test report and drawings shall be a constituent part of this Approval.*

*Each component of the nonoriginal replacement exhaust silencing system, excluding pipes and fitting accessories, shall be marked with a readable and durable:*

- *make (trade name or mark of manufacturer),*
- *commercial name,*
- *approval marking.*

*This type of product shall be allotted the following approval marking:*



*The design and size of the approval marking shall meet the requirements of the Regulation No. 92 R.*

*Only products which fully comply with the approval documentation may bear the allotted approval mark.*

*The approval marking on the product must be attached at the place indicated in the approval documentation. Location of the approval marking shall be selected in such way that the marking is clearly readable even when installed on a vehicle.*

*The product may also be marked with a foreign approval or other marking, provided that the identifiability and readability of the approval marking granted by the Slovenian Type Approval Authority is not affected.*

*The product shall not bear any markings that may lead to confusion with the officially allotted marking.*

*Changes of any kind performed on the product shall be subject to special permission by the Slovenian Type Approval Authority.*

*The Approval will become ineffective when returned or withdrawn. The Approval shall be withdrawn: should the conditions for its granting and existence no longer exist, should the owner of the Approval break his obligations related to the Approval, or when it has been established that the approved product no longer complies with the applicable regulations.*

*The manufacturer shall regularly inspect the quality of the approved product as well as its conformity with the approval documentation. He shall keep record of this inspection and allow to the surveillance body appointed by the Slovenian Type Approval Authority access to the records. Should any non-conformities be found with respect to the approval documentation, the manufacturer shall immediately inform thereof the Slovenian Type Approval Authority.*

*Any time, the Slovenian Type Approval Authority may check the correct implementation of the authorizations appointed through this Approval, and for this purpose also select samples for a repeated test. The costs of such checks and conformity of production assessments are charged to the manufacturer.*

*Any changes regarding the manufacturer's marking, the address or the production plant, or the authorized person appointed through this Approval, shall be forthwith notified to the Slovenian Type Approval Authority.*

*The rights granted through this Approval shall be untransferrable. The rights of third persons shall not be affected through this Approval.*

*In the case where the production or sale of the product does not start within one year after the granting of the Approval, or the production or sale is interrupted for a period longer than one year, or such interruption is foreseen, the Slovenian Type Approval Authority shall be immediately notified.*

*The Slovenian Type Approval Authority shall be notified of the start of production or start of sale, or its restart, within a month's time at the latest.*

*Non-compliance with above stated provisions may result in withdrawal of the Approval and will be prosecuted.*

*Legal explanations in relation with this Approval may only be given by the Slovenian Type Approval Authority.*

08.03.2021



  
Tomaž Svetina, Sc.Eng.  
Head of Vehicle department



**KAZALO OPISNE DOKUMENTACIJE E8166**  
**INDEX TO THE INFORMATION PACKAGE E8166**

Revision: 00

Homologacijska številka: **E26 92 R 02/00 8166**  
Approval number:

Razširitev številka: **00**  
Extension number:

Zgodovina homologacije / Opisne dokumentacije:  
Type approval / Information package history:

Razširitev / Revizija: Extension / Revision:	Zadeva: Subject:	Datum izdaje: Date of issue:	Skupno št. strani: Total No. of pages:
00/00	Odobritev homologacije Granting of type approval	08.03.2021	31

Poročilo o preskusu: **21-00003-CM-GBM-00**  
Test report:

Število strani: **14**  
Number of pages:

datum izdaje: **22.02.2021**  
date of issue:

datum zadnje spremembe: /  
date of latest amendment:

Opisni list/Tehnični opis naprave: /  
Information document/Technical description of the device:

Število strani:  
Number of pages:

datum izdaje:  
date of issue:

datum zadnje spremembe: /  
date of latest amendment:

Risba(e)<sup>1</sup>:  
Drawing(s)<sup>1</sup>:

Število strani: **3**  
Number of pages:

datum zadnje spremembe: /  
date of latest amendment:

Navodila za vgradnjo in uporabo:  
Mounting and handling instructions:

Število strani: **13**  
Number of pages:

datum zadnje spremembe: /  
date of latest amendment:

Ostala dokumentacija:  
Other documentation:

Število strani: **1**  
Number of pages:



<sup>1</sup> kosovnice, slike, sheme in diagrami / <sup>1</sup> bill of materials, pictures, schematics and diagrams

**SLOVENIAN TRAFFIC SAFETY AGENCY,  
KOTNIKOVA ULICA 19a,  
1000 LJUBLJANA,  
SLOVENIA**

We, Akrapovič d.d., Malo Hudo 8a. 1295 Ivančna Gorica, Slovenia hereby ask STSA to grant approval against **ECE-R92 02** for the following product:  
Exhaust system for Motorcycles:

Type: **M-HHA001**

Version: **M-HHA001 05T (Ti / Ti / Ca)**  
**M-HHA001 06T (Ti / Ti / Ti)**  
**M-HHA001 02T (SS / Ti / Ca)**  
**M-HHA001 03T (SS / Ti / Ti)**  
**M-HHA001 05TBL (Ti / Ti / Ca)**  
**M-HHA001 06TBL (Ti / Ti / Ti)**  
**M-HHA001 02TBL (SS / Ti / Ca)**  
**M-HHA001 03TBL (SS / Ti / Ti)**

Manufacturer: **Akrapovič d.d.**  
**Malo Hudo 8a**  
**1295 Ivančna Gorica**  
**Slovenia**

We declare that we have not applied to any other Approval Authority in the EU Member States for this approval.

We have requested **TÜV SÜD Auto Service GmbH**, to carry out all testing required by the directive and/or regulation that the approval is sought against and to present the entire documentation for the approval.

Yours sincerely,

Akrapovič d.d.  
Uroš Rosa, CEO



MALO HUDO 8A, 1295 IVANČNA GORICA,  
SLOVENIJA

Date: 05.06.2020





Techn.Bericht Nr. / *Techn. Report No.*: 21-00003-CM-GBM-00

Hersteller / *Manufacturer*: Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica  
Slovenia

Typ / *Type*: M-HHA001

Seite / *Page* 1/7

# PRÜFBERICHT TEST REPORT

## Nr. / no. 21-00003-CM-GBM-00

über die Prüfung einer Nicht-Originalauspuffanlage oder  
von Einzelteilen hiervon als Technische Einheit für Krafräder gemäß  
ECE-R 92, Änderungsserie 02  
Einheitliche Bedingungen für die Genehmigung von nicht- originalen Austausch-  
Schalldämpferanlagen für Krafräder, Mopeds und Dreiradfahrzeuge

*about a test of a non-original exhaust system or a component  
as a separate technical unit for motorcycles according to  
ECE-R 92, 02 series of amendments*

*Uniform provisions concerning the approval of non-original replacement exhaust silencing  
systems (NORESS) for motorcycles, mopeds and three-wheeled vehicles.*

<b>Genehmigungsstand / <i>Approval status</i></b>		
<input checked="" type="checkbox"/>	Erteilung einer Typgenehmigung <i>Granting of a type approval</i>	<b>E26 92R-02 8166*00</b>
<input type="checkbox"/>	Nachtrag/Änderung zur Typgenehmigung Nr. <i>Extension/correction to type approval no.</i>	

### Gründe der Erweiterung / *Reasons for extension*

Es wird geändert: -  
*It will be changed:* -

Es wird aktualisiert: -  
*It will be updated:* -



Techn.Bericht Nr. / *Techn. Report No.:* 21-00003-CM-GBM-00

Hersteller / *Manufacturer:* Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica  
Slovenia

Typ / *Type:* M-HHA001

Seite / *Page* 2/7

## 0. Allgemeine Angaben / *General information*

0.1. Fabrikmarke / *Make:* Akrapovic Exhaust System Technology

0.2. Typ / *Type:* M-HHA001

0.2.1 Ausführungen / *Variants*

Ausführungen / <i>Variants</i>	Material / <i>Material</i>		
	Rohre / <i>Tubes</i>	Außenmantel / <i>Sleeve</i>	Endkappe / <i>End cap</i>
M-HHA001 05T	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HHA001 06T	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>
M-HHA001 02T	VA / <i>Stainless Steel</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HHA001 03T	VA / <i>Stainless Steel</i>	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>
M-HHA001 05TBL	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HHA001 06TBL	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>
M-HHA001 02TBL	VA / <i>Stainless Steel</i>	Titan / <i>Titanium</i>	Karbon / <i>Carbon</i>
M-HHA001 03TBL	VA / <i>Stainless Steel</i>	Titan / <i>Titanium</i>	Titan / <i>Titanium</i>

Die Ausführungen unterscheiden sich in der Verwendung verschiedener Werkstoffe. Der konstruktive Aufbau ist gleich. Das akustische Verhalten ist gleichwertig.

*The variants vary, because different materials are used. The basic construction remains the same. The acoustic behaviour is similar.*



Techn.Bericht Nr. / *Techn. Report No.:* 21-00003-CM-GBM-00

Hersteller / *Manufacturer:* Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica  
Slovenia

Typ / *Type:* M-HHA001

Seite / *Page* 3/7

- 0.3. Name und Anschrift des Herstellers /  
*Name and address of manufacturer:* Akrapovic d.d.  
Malo Hudo 8a  
1295 Ivančna Gorica  
Slovenia
- 0.4. Name und Anschrift des Beauftragten /  
*Name and address of authorised agent:* entfällt / *not applicable*
- 1.0. Klasse der Fahrzeuge, für die die  
Anlage bestimmt ist / *Class of the  
vehicles the unit is used for:* L3e
- 1.1. Beschreibung der Fahrzeuge, für  
die die Einrichtung bestimmt ist /  
*Description of the vehicles  
the unit is used for:* siehe Anlage 2 / *notice enclosure 2*

## 2. Angaben zum Prüfobjekt / *Composition of the separate technical unit*

- 2.1. Art der Technischen Einheit:  
*Kind of technical unit:* Siehe Anlage Technische Dokumentation  
*See Enclosure, Technical documentation*
- 2.2. Ort der Kennzeichnung/  
*Place of marking:* Lasergravur auf Endkappe / Typschild aufgenietet  
*Engraved by laser / plate fixed with rivets*
- 2.3. Zusammenstellung der technischen Einheit /  
*Composition of the separate  
technical unit:* siehe Anlage 1 / *notice enclosure 1*
- 2.4. Lage und Richtung der Auspuffmündung:  
*Position and direction of the tail pipe:* rechts seitlich nach hinten  
*at the right side to the rear*
- 2.5. Prüfmuster eingegangen am:  
*Test samples submitted for testing at:* 01.12.2020



Techn.Bericht Nr. / *Techn. Report No.:* 21-00003-CM-GBM-00

Hersteller / *Manufacturer:* Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica  
Slovenia

Typ / *Type:* M-HHA001

Seite / *Page* 4/7

### 3. Prüfprotokoll / *Test report*

Versuchsreihe A / *Tests series A*

#### 3.1. Fahrzeug lfd. Nr. 1) / *Vehicle no. 1)*

- 3.1.1. Typ / *Type:* KTM V2 Adventure  
3.1.1.1 Variante / *Version / Variant / Version:* C1 / -  
3.1.1.2 Fahrzeugkategorie / *Category:* L3e-A3  
3.1.1.3 Handelsbezeichnung / *Model:* 1290 Super Adventure R
- 3.1.2. Hersteller / *Manufacturer:* KTM AG
- 3.1.3. Genehmigungs-Nr. / *Homologation no.:* e1\*168/2013\*00274\*  
3.1.3.1 Nachtrag bzw. Erweiterung / *Extension:* 00
- 3.1.4. Fahrzeugidentifizierungsnummer / *Vehicle identification no.:* VBKV79P35MM928700
- 3.1.5. Baujahr / *Year of manufacture:* 2020
- 3.1.6. km-Stand / *Kilometers:* 3148
- 3.1.7. Zul. Gesamtgewicht / *total weight:* 450 kg

#### 3.2. Antriebsmaschine / *Engine*

- 3.2.1. Hersteller / *Manufacturer:* KTM
- 3.2.2. Typ / *Type:* 619
- 3.2.3. Hubraum / *Engine capacity:* 1301 cm<sup>3</sup>
- 3.2.4. Höchstleistung / *engine net power:* 118 kW bei / *at* 9000 min<sup>-1</sup>
- 3.2.5. max. Drehmoment / *net torque:* 138 Nm bei / *at* 6500 min<sup>-1</sup>

#### 3.3. Kraftübertragung / *Transmission*

- 3.3.1. Art der Kraftübertragung / *Kind of transmission:* mechanisch / *mechanical*
- 3.3.4. Getriebe / *Gearbox:* manuell / *manual*
- 3.3.5. Übersetzungsverhältnisse / *Transmission ratios:*  
primär / *primary / sekundär / secondary* 1,9 / 2,471  
Höchstgeschwindigkeit / *Top speed:* 235 km/h  
Reifen / *Tires:* Bridgestone Battlax AdventureCross AX41  
vorne / *front* 90/90 21 54Q  
hinten / *rear* 150/70 B18 70Q

#### 3.4. Zusammenbau der Auspuffanlage / *Assembly of the exhaust system*

- (Teile lfd. Nr. lt. Anl. 1 / *no. of parts, enclosure 1)*  
Versuchsreihe A / *Tests series A:* 1)2)





Techn.Bericht Nr. / *Techn. Report No.:* 21-00003-CM-GBM-00

Hersteller / *Manufacturer:* Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica  
Slovenia

Typ / *Type:* M-HHA001

Seite / *Page* 5/7

### **3.5. Messung der Geräuschwerte / *Acoustic measurements***

- 3.5.1. Hersteller des Messgerätes /  
*Manufacturer of test equipment:* MÜLLER-BBM
- 3.5.2. Typ des Messgerätes /  
*Type of the test equipment:* PAK MK II Configuration
- 3.5.3. Fahrgeräusch, Standgeräusch /  
*Drive by noise, stationary noise:*  
  
nach ECE-R 41.04 /  
*according ECE-R 41.04*
- 3.5.4. Beladungszustand bei der Fahrgeräuschmessung /  
*Load condition during drive by test:* Leergewicht zuzüglich 75 kg Fahrer /  
*Unloaded weight plus 75 kg driver*
- 3.5.5. Abweichung bei Kalibrierung /  
*Deviation at calibration:* < 0.2 dB(A)

### **3.6. Messung der Leistung / *Power measurement***

- 3.6.1. Messung der Leistungskurve mit Nicht-Originalauspuffanlage /  
*Testing of max. power with non-original exhaust system:*  
  
Die gemessene Nennleistung und die zugehörige Drehzahl liegen im Toleranzbereich von 5% im Vergleich zu den mit der Originalauspuffanlage gemessenen Werten.  
(siehe Anlage) /  
*The tested max. power und the engine speed are in the 5% tolerance in comparison with the original exhaust system. (see enclosure)*
- 3.6.2. Messung der Höchstgeschwindigkeit mit Nicht-Originalauspuffanlage/  
*Testing of top speed with non-original exhaust system:*  
  
Entfällt, da Fahrzeugklasse: L3e  
*Not applicable, because vehicle category: L3e*

### **3.7. Konditionierung der Auspuffschalldämpferanlage / *Conditioning***

durch Druckschwingungen / *by pulsation*

Techn.Bericht Nr. / *Techn. Report No.:* 21-00003-CM-GBM-00

Hersteller / *Manufacturer:* Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica  
Slovenia

Typ / *Type:* M-HHA001

Seite / *Page* 6/7

### **3.8. Messung der Schadstoffemissionen / *Pollution Test***

Auf eine Messung des Abgasverhaltens konnte verzichtet werden, da der original Katalysator unverändert im Abgassystem verbleibt. Eine Verschlechterung des Abgasverhaltens ist nicht zu erwarten.

*The Pollution test was not necessary because the original catalytic converter remains without any changes in the exhaust system. A degradation of catalyst efficiency is not expected.*

### **3.9. Ergebnisse / *Test results***

Die Ergebnisse der Prüfungen hinsichtlich / *The results of*

#### **3.9.1. Geräusche / *Sound testing***

#### **3.9.2. Leistung / *Power measurement***

#### **3.9.3. Höchstgeschwindigkeit / *Top speed***

#### **3.9.4. Abgasverhalten / *Pollution test***

sind der als Anlage 3 und 4 beigefügten Tabellen zu entnehmen /  
*are attached in the enclosure.*

Aufgrund der Messung mit dem/n o.g. Fahrzeug/en können auch die in Anlage 2 aufgeführten Kraffräder die die gleiche Serien- Auspuffanlage besitzen und gleiche bzw. geringere Motorleistung haben, mit in den Verwendungsbereich aufgenommen werden/  
*All motorcycles with the same serial exhaust system and same or less performance mentioned in enclosure 2, can be taken into the field of application due to the measurement with the above named motorcycle/s.*

#### **3.9.5. Die beschriebene Nicht-Originalauspuffanlage / Technische Einheit darf an den in der Anlage 2 aufgeführten Kraftfahrzeugen unter den dort genannten Bedingungen verwendet werden. /**

*The described non-original exhaust system / technical unit is suitable for an application on the vehicles listed in enclosure 2.*

#### **3.9.6. Die allgemeinen Spezifikationen gemäß Punkt 6.1 der ECE-R 92 wurden überprüft und werden durch die Nicht-Originalauspuffanlage / Technische Einheit erfüllt. /**

*The general specifications concerning item 6.1 of the Directive ECE-R 92 were checked and fulfilled.*

### **4. Anlagen / *Enclosures***

Anlage 1, Teile der Nicht-Originalauspuffanlage

*Enclosure 1, Composition of the non original exhaust system*

Anlage 2, Verwendungsbereich

*Enclosure 2, Field of application*

Anlage 3, Ergebnis der Prüfungen

*Enclosure 3, Test results*

Anlage, Leistungskurve

*Enclosure, Performance diagram*

Anlage, Protokoll Geräuschmessung

*Enclosure, protocol noise test*



Techn.Bericht Nr. / *Techn. Report No.:* 21-00003-CM-GBM-00

Hersteller / *Manufacturer:* Akrapovic, Malo Hudo 8a, 1295 Ivančna Gorica  
Slovenia

Typ / *Type:* M-HHA001

Seite / *Page* 7/7

Anlage <i>Enclosure</i>	Zeichnung Nr. <i>Drawing no.</i>	Datum <i>Date</i>	Seiten <i>Pages</i>
Zeichnung Schalldämpfer <i>Drawing silencer</i>	M-HHA001	02.04.2020	1
Stückliste <i>Part list</i>	M-HHA001	-	1
Zusammenstellungszeichnung <i>Assembly drawing</i>	KTM SUPER ADVENTURE 1290 R/S	-	1
Montageanleitung <i>Installation instructions</i>	KTM 1290 Super Adventure R/S	12/2020	12
ASEP Bestätigung <i>Statement of compliance ASEP</i>	-	06.01.2021	1

## 5. Schlussbescheinigung / *Summary*

Der angegebene Beschreibungsbogen und der darin beschriebene Typ entsprechen der genannten Prüfgrundlage. Der ungünstigste Fall wurde entsprechend Prozessbeschreibung „Erstellung von Gutachten“ bestimmt.

Der Prüfbericht darf nur vom Auftraggeber und nur in vollem Wortlaut vervielfältigt und weitergegeben werden. Eine auszugsweise Vervielfältigung und Veröffentlichung des Prüfberichtes ist nur nach schriftlicher Genehmigung des Prüflaboratoriums zulässig  
*The information folder and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document "Preparation of Test Reports".*

*The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.*

München, 22.02.2021



Dipl.-Ing. (FH) Max Höhler  
Prüfingenieur / *The Expert*



T:\KRAD KOMPONENTEN\Auspuffanlage\Akrapovic\2021\KTM 1290 Super Adventure (M-HHA001)\ECE\M-HHA001\_SLO\_ECE.docx

**ANLAGE 1  
ENCLOSURE 1**

zum Prüfbericht Nr. / to test report no.

Typ / Type:

Hersteller / Manufacturer:

21-00003-CM-GBM-00

M-HHA001

Akrapović, Malo Hudo 8a  
1295 Ivancna Gorica, Slovenia

**Teile der Nicht-Originalauspuffanlage + Originalteile/  
Composition of the original exhaust system + original parts**

Seite / Page 1/1

Lfd. Nr. /	Einzelteile, Abmessungen in mm /	Abmessungen des Teiles in mm bzw. Originalteil / Ersatzteil /	Teilenummer bzw. Genehmigungsnummer /
No.	Components parts, dimensions in mm	Dimensions of the part in mm or original part / replacement part	Part no. or homologation no.
1)	Krümmerröhre und Sammler mit Katalysator / header pipes, collector pipe with catalytic converter	Originalteil / original parts	-
2)	Schalldämpfer / silencer (Austrittsrohr / outlet pipe 1 x Ø 25 and 1 x Ø 28)	rechteckig / rectangular 126,8 x 201,8 Länge ohne Endkappen / length without end caps 420	M-HHA001 e26*08166*G E26 92R-02 8 166



**ANLAGE 2  
ENCLOSURE 2**

**zum Prüfbericht Nr. / to test report no.**

**Typ / Type:**

**Hersteller / Manufacturer:**

**21-00003-CM-GBM-00**

**M-HHA001**

**Akrapovic, Malo Hudo 8a**

**1295 Ivancna Gorica, Slovenia**

**Verwendungsbereich (Fahrzeugdaten) / Field of application**

Seite / Page 1/1

Die Fahrzeuge erfüllen - bezugnehmend auf ihre Fahrzeugtyp Genehmigung - die Umweltauflagenstufen: Euro (5)

The vehicles fulfil - regarding their Whole Vehicle Type Approval (WVTA) - the environmental steps: Euro (5)

Lfd. Nr.	Hersteller	Fabrikmarke	Handelsbezeichnung	Fahrzeugtyp ab Genehmigung Nr.	Var. Vers.	Motortyp	Hubraum in cm <sup>3</sup>	Nennleistung kW/min-1	Sonstige bestimmende Merkmale	Anordnung entspr. Anl. 1 lfd. Nr.
1)	KTM AG	KTM	1290 Super Adventure R	Vehicle type beginning with no. of homologation	alle	Engine type 4 Stroke	Engine capacity in cm <sup>3</sup>	max. engine power kW/min-1	Additional remarks	Composition reg. enclosure no. 1
2)			1290 Super Adventure S	KTM V2 Adventure e1*168/2013*00274*	all	619	1301	118/9000	mit Kat.*/ with cat.	1)2)
3)			1290 Super Adventure							

\*) Die serienmäßigen Katalysatoren bleiben unverändert im Abgassystem. Eine Verschlechterung des Abgasverhaltens ist nicht zu erwarten. / The original catalytic converter remains in the exhaust system. A degradation of catalyst efficiency is not expected.



**ANLAGE 3  
ENCLOSURE 3**

zum Prüfbericht Nr. / to test report no.

Typ / Type:

Hersteller / Manufacturer:

21-00003-CM-GBM-00

M-HHA001

Akrapovic d.d.,

1295 Ivancna Gorica, Slovenia

**Ergebnis der Prüfungen / Test results**

Seite / Page 1/1

Lfd.Nr.	Leistung		Vmax	Vmax	Fahrgeräusche in dB(A) / Sound levels driving vehicle in dB(A)				Standgeräusche in dB(A) / Sound levels stationary vehicle in dB(A)							
	Serie kW/min <sup>-1</sup>	Austausch kW/min <sup>-1</sup>			Leistung Grenzwert in Gang **)	gemessen in Gang measured in gear ratio	Serie gemessen L <sub>urban</sub>	Austausch gemessen L <sub>urban</sub>	bei km/h	bei km/h	lt. Fzg. BE	Serie gemessen /	Austausch gemessen bei min <sup>-1</sup>	bei min <sup>-1</sup>		
No. of vehicle	Engine power original kW/min <sup>-1</sup>	Engine power non original kW/min <sup>-1</sup>	Vmax original km/h	Vmax non original km/h	Limit Value **)	measured in gear ratio	SL <sub>EU4</sub>	Original measured L <sub>urban</sub>	Non original measured L <sub>urban</sub>	at km/h	Original measured	Non original measured	Vehicle type hom.	Original measured	Non original measured	at min <sup>-1</sup>
1) A*	118/9000	118/9000	-	-	77	3+4	78	78	78	50	91	91	89	91	91	4500

\*) Versuchsreihe / test series

\*\*) Grenzwert der Richtlinienfassung, die bei Erteilung der Fahrzeuggenehmigung Gültigkeit hatte /  
Limit value of directive which was valid by vehicle type homologation



1. **Vehicle**

1.1 Manufacturer: KTM  
 1.2 Vehicle Ident. Number: VBKV79P35MM928700  
 1.3 Commercial name / Type: 1290 Super Adventure R  
 1.4 Type: KTM Adventure  
 1.5 Variant: B1  
 1.6 Version: ---  
 1.7 Class: L3e-A3  
 1.8 Type approval number: without (Prototype)  
 1.9 Vehicle kerb weight ( $m_{kerb}$ ) [kg]: 240,0  
 1.10 Mass of the vehicle in running order ( $m_{ro}$ ) [kg]: 315,0  
 1.11 Vehicle test mass ( $m_t$  with rider) [kg]: 316,5  
 1.12 Technically permissible max. laden mass (M) [kg]: 450,0  
 1.13 Power to mass ratio index (PMR): 374,6  
 1.14 Vehicle length [m]: 2,25  
 1.15 Milage [km]: 3148

2. **Engine**

2.1 Manufacturer: KTM  
 2.2 Engine code: M-619\*38350\*  
 2.3 Cycles:  four stroke     two stroke     n.a.  
 2.4 Number and arrangement of cylinders: 2 / V-Engine  
 2.5 Working principle:  positive ignition     compression ignition     electrical     hybrid  
 2.6 Rated power [ $kW / min^{-1}$ ]: 118 / 9000  
 2.7 Idle engine speed [ $min^{-1}$ ]: 1400  
 2.8 Cylinder capacity [ $cm^3$ ]: 1301

3. **Transmission**

3.1 Type:  manual gearbox     automatic gearbox    Type: without  
 3.2 No. of gears: 6  
 3.3 Ratio (Prime : Secondary) 17 : 42  
 3.4 Driving mode(s): Street / Sport / Rain / Offroad



4. **Equipment**

4.1	Pre Catalyst(s) Make / type (left/right):	---	/	---	/	---
4.2	Catalyst(s) Make / type (left/right):	KTM	/	---	/	61905091010
4.5	Front exhaust silencer(s) Make / type (left/right):	---	/	---	/	---
4.6	Middle exhaust silencer(s) Make / type (left/right):	---	/	---	/	---
4.7	Rear exhaust silencer(s) Make / type (left/right):	Akrapovic	/	---	/	M-HHA001
4.8	Tail pipe(s) Make / type (left/right):	Akrapovic	/	---	/	1x D=25/30mm; 1x D=28/32mm
4.9	Exhaust Flap(s) Make / type (left/right):	---	/	---	/	---

4.13 Tyres

Manufacturer:	Bridgestone	Bridgestone
Type:	Battlax AdventureCross AX41	Battlax AdventureCross AX41
Size:	90/90 - 21 54Q	150/70 B18 70Q
Tyre pressure [bar]:	2,6	2,6
Tyre tread depth [mm]:	> 4	> 4

5. **Measurements**

5.1 Conditions

Passby Parameter		Driving conditions		i		i+1		Calculation of the acceleration/factors	
Reference acceleration $a_{wot\ ref}$ [m/s <sup>2</sup> ]:	4,41	Gear:	3	3	4	$a_{wot\ ref} = 3.33 * \log(PMR) - 4.16$			
-10% Reference acc. $a_{wot\ ref\ min}$ [m/s <sup>2</sup> ]:	3,97	test acceleration $a_{wot\ test}$ [m/s <sup>2</sup> ]:	5,50	5,50	3,74	$k = ((a_{wot\ ref} - a_{wot(i+1)})/(a_{wot(i)} - a_{wot(i+1)}))$			
+10% Reference acc. $a_{wot\ ref\ max}$ [m/s <sup>2</sup> ]:	4,85	aver. vehicle velocity when ref. point at AA'	31,4	31,4	38,4	$k_p = (1 - (a_{urban}/a_{wot\ ref}))$			
Target acceleration $a_{urban}$ [m/s <sup>2</sup> ]:	2,10	aver. vehicle velocity when ref. point at PP'	50,2	50,2	49,2	$a_{wot\ i} = ((V_{BB}/3.6)^2 - (V_{AA}/3.6)^2)/(2*(20+i))$			
Gear weighting factor k:	0,38	aver. vehicle velocity when ref. point at BB'	64,5	64,5	60,3	$a_{wot\ i+1} = ((V_{BB}/3.6)^2 - (V_{AA}/3.6)^2)/(2*(20+i))$			
Partial power factor $k_p$ :	0,52	Operating mode:	Street			$a_{urban} = 1.28 * \log(PMR) - 1.19$			
Test speed $v_{test}$ at PP' (±1) [km/h]:	50,0	Gearbox:	Locked			Evaluation $a_{wot\ test}$ : AA'-BB'			

5.2 Measurement results pass by noise

Gear used	Run	Mode	acc. point <sup>(1)</sup> [m]	A-A'		P-P'		B-B'		$a_{wot\ test}$ [m/s <sup>2</sup> ]	Sound level L <sup>(2)</sup>		L <sup>(3)</sup>	
				v [km/h]	n [rpm]	v [km/h]	n [rpm]	v [km/h]	n [rpm]		left [dB(A)]	right [dB(A)]	li [dB(A)]	re [dB(A)]
3	2	wot <sub>(3)</sub>	0,0	31,7	2055	50,6	3320	64,5	4277	5,47	83,0	82,5	82,9	82,3
	45			31,0	1964	49,4	3292	64,5	4269	5,55	82,7	82,3		
	46			31,5	2037	50,6	3279	64,4	4262	5,47	83,1	82,2		
	8	49,6		3139	49,2	3134	49,5	3115		73,6	73,3			
	9	50,5		3217	50,5	3183	49,7	3134		73,7	73,2			
4	10	crs <sub>(3)</sub>	49,5	3131	49,4	3137	49,1	3111		73,8	73,2	73,7	73,2	
	15		38,2	1972	49,3	2594	60,0	3224	3,71	82,1	81,6			
	31		38,7	1981	49,2	2753	60,5	3224	3,75	82,4	81,7			
	36	38,4	1982	49,0	2588	60,3	3222	3,75	82,2	81,4				
	11	49,7	2573	49,7	2556	49,5	2530		73,1	72,8				
	12	49,5	2510	49,5	2544	49,6	2547		73,4	73,1				
13	49,6	2542	49,7	2539	49,1	2511		72,9	72,4					

1) Acceleration point according Line A-A'; 2) values reduced by 1 dB(A); Numbers written in *italics* a corrected acc. to Annex3, Pt. 2.1; 3) Intermediate Results of each side of the vehicle

$L_{wot\ rep} = L_{wot(i+1)} + k * (L_{wot(i)} - L_{wot(i+1)})$ ; [In the case of a single gear ratio test the values are the test result of each test; PMR > 25]  
 $L_{crs\ rep} = L_{crs(i+1)} + k * (L_{crs(i)} - L_{crs(i+1)})$ ; [In the case of a single gear ratio test the values are the test result of each test; PMR > 25]

5.3 Results

	Gear		L <sub>rep</sub>		L <sub>wot\ max\ limit</sub> [dB(A)]	Test result L <sub>urban</sub> [dB(A)]	Calculation L <sub>urban</sub> (PMR > 25)
	i [dB(A)]	i+1 [dB(A)]	wot [dB(A)]	crs [dB(A)]			
L <sub>wot</sub>	82,9	82,2	82,5	73,3	82,0	77,7	$L_{urban} = L_{wot\ rep} - k_p * (L_{wot\ rep} - L_{crs\ rep})$
L <sub>crs</sub>	73,7	73,1					$L_{urban} = 82,5 - 0,52 * (82,5 - 73,3)$



5.4 Limits

Category	Power-to-mass ratio index (PMR)	Limit value for L <sub>urban</sub> [dB(A)]	applicable Limit value
First category	PMR ≤ 25	73	
Second category	25 < PMR ≤ 50	74	
Third category	PMR > 50	77 <sup>(a)</sup>	X

(a) For motorcycles tested in second gear only in Annex 3, the limit value is increased by 1dB(A) until the date in Paragraph 12.7. Data for affected vehicles shall be studied, and discussions shall be made in case of further extension.



5.5 Sound level of stationary vehicle

Operation mode: Street

Measuring results	left	right
	[dB(A)]	[dB(A)]
1 <sup>st</sup> Run	---	91,9
2 <sup>nd</sup> Run	---	91,0
3 <sup>rd</sup> Run	---	91,1
4 <sup>th</sup> Run	---	---
average Value	---	91,3

Engine speed [rpm]	Target engine speed	
4500	---	n = 75% S (S ≤ 5000 min-1)
	X	n = 50% S (S > 5000 min-1)

<b>Result [dB(A)]</b>	<b>91</b>
-----------------------	-----------

5.5.1 Sound level of stationary vehicle in different operation modes

Operation mode	Result [dB(A)]
---	---
---	---
---	---
---	---
---	---

Engine speed [rpm]	Target engine speed	
---	---	n = 75% S (S ≤ 5000 min-1)
	---	n = 50% S (S > 5000 min-1)

6. **Weather conditions**

Air temperature [°C]:	0,8
Surface temperature [°C]:	2,6
Air pressure [mbar]:	999,5

Air humidity [%]:	81,7
Wind speed [m/s]:	0,0
Wind direction [°]:	74,7

7. **General Requirements**

Ambient noise level	
before Measurement [dB(A)]:	38,2
after Measurement [dB(A)]:	38,2

Calibration level (Target) [dB(A)]:	94,0
Calibration level Micro 1 [dB(A)]:	94,0
Calibration level Micro 2 [dB(A)]:	94,0

8. **Test Standard:** UN ECE-R 41.04, Supp. 7, Annex 3
9. **Expert:** Wibmer Chr.
10. **Date / place of test:** 01.12.2020 / Akrapovic d.d., Precna (SI)
10. **Date of issue:** 21.12.2020
11. **Remarks:** Different driving modes have no significant influence in sound pressure level  $L_{urban}$ ,  $L_{stat}$  and acceleration  $a_{wot, test}$   
 Akrapovic slip on system  
 2 Inserts: Upper insert: D=25mm/30mm (tube in the tube); Lower insert: D=28mm/32mm (tube in the tube)  
 ---



**Partial exhaust system / Slip-ON line / EC / ECE Type approval**

**KTM SUPER ADVENTURE 1290 R/S**

**Product code: S-KTM12SO2-HHAT**

