



Communication concerning extended approval granted of a type of electrical/electronic sub-assembly with regard to Regulation No 10

Approval No:	<u>05190 Extension 6</u>		
Reason for extension	New types added New information document added		
1. Make: (trade name of manufacturer)	Mobitec / LAWO / Gorba		
2. Type and general commercial description:	MobiLED Ultima Alternative commercial name LAWO Futura Alternative commercial name Gorba imotion LED e-advanced		
3. Means of identification of type, if marked on the component:	Type identification on the label		
3.1. Location of that marking:	Back side of unit		
4. Category of vehicle:	N/A		
5. Name and address of manufacturer:	Mobitec AB Box 97 SE-524 21 Herrljunga		
6. Location and method of affixing the ECE approval mark:	See item 3		
7. Address(es) of assembly plant(s):	LTG Warehouse LAWO Informationssysteme GmbH Poland ul. Sikorskiego 2 83-000 Pruszcz Gdanski POLAND		
8. Additional information:	See appendix		
9. Technical service responsible for carrying out the tests:	SP Technical Research Institute of Sweden Box 857 SE-501 15 BORÅS		
10 and 11. Date and numbers of test reports:	Number	Date	Pages
	3P03057-E1	2013-09-02	28
	3P03057-E2	2013-11-21	51
	3P04391-E1	2013-09-02	28
	3P09087A	2014-01-09	38

3P09087B	2014-01-09	30
3P09087C	2014-01-09	37
4P02453	2014-04-24	44
5P08324A	2015-11-24	54
5P08324B	2015-11-24	52
6P04068D	2016-05-24	78
6P04068E	2016-05-14	78
6P05206A	2016-06-28	78
6P05206B	2016-06-28	65
6P07823A rev.1	2016-10-19	55
6P07823B rev.1	2016-10-19	55
7P02302A	2017-05-11	24
7P02302B	2017-05-15	24
<u>7P04574</u>	<u>2017-06-26</u>	<u>35</u>

12. Remarks (if any): See appendix
13. Place: Borlänge
14. Date: 2017-09-26

15. Signature:



Lars Rask

16. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.

- Information document 03150-R2, dated 2014-01-20 5 pages
- Information document 03150-R3, dated 2014-04-01 6 pages
- Information document 03150-R4, dated 2016-02-01 6 pages
- Information document 03150-R6, dated 2017-05-19 8 pages
- Information document 03150-R7, dated 2017-07-10 8 pages
- Information document 03150-R8, dated 2017-09-13 9 pages

- Test reports: see item 10 and 11

**Appendix** to extended type approval communication form No: 05190 Extension 5  
Concerning the type approval of an electrical/electronic  
sub-assembly under Regulation No. 10

- |        |   |   |
|--------|---|---|
| 1.     | Additional information  |   |
| 1.1.   | Electrical system rated voltage:  | 12 V / 24 V Negative ground   |
| 1.2.   | This ESA can be used in any vehicle type with the following restrictions:                     | N/A   |
| 1.2.1. | Installation conditions if any:   | N/A   |
| 1.3.   | This ESA unit can be used only in the following vehicle types:                                | N/A   |
| 1.3.1. | Installation conditions if any:   | N/A   |
| 1.4.   | The specific test method(s) used and the frequency ranges covered to determine immunity were: | ISO 11 452-4, 20-200 MHz<br>ISO 11 452-2, 200-800 MHz<br>ISO 11 452-2, 800-2000 MHz |
| 1.5.   | Approved laboratory responsible for carrying out the test:                                    | SP Technical Research Institute of Sweden<br>Box 857<br>SE-501 15 BORÅS             |

2 Remarks

### Types

Make	Type	Identification
Mobitec	MobilLed Ultima	Article starting with <u>LC, LD</u> , LG, LI, LL, LM, LQ
LAWO	Futura	Article starting with MAEZ
Gorba	imotion LED.e-advanced	<u>Articles between 31.82.93.00.100 and 31.82.93.00.999</u>