


COMMUNICATION

 **10 R - 05 0020**

concerning:

~~APPROVAL GRANTED~~
~~APPROVAL EXTENDED~~
~~APPROVAL REFUSED~~
~~APPROVAL WITHDRAWN~~
~~PRODUCTION DEFINITELY DISCONTINUED~~

of a type of electrical/electronic sub-assembly with regard to Regulation No. 10.

Approval No. **050020**Extension No. **10**

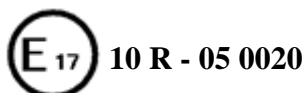
- | | | |
|------|---|---|
| 1. | Make (trade name of manufacturer): | Sunit |
| 2. | Type and general commercial description(s): | SFDIN1; vehicle computer or taximeter

Versions: SFDIN1-722583D, SFDIN1-722583E, SFDIN1-722543D, SFDIN1-722543E, SFDIN1-411543D, SFDIN1-411543E, SFDIN1-411543-AT, SFDIN1-742043, SFDIN1-742083, <i>SFDIN1-742083B</i> , <i>SFDIN1-7428163</i>

Model name: Sunit fc2 (SFDIN1-411543D, SFDIN1-411543E, SFDIN1-411543-AT), Sunit fd2 (SFDIN1-722583D, SFDIN1-722583E, SFDIN1-722543D, SFDIN1-722543E), Sunit fdq (SFDIN1-742043, SFDIN1-742083, <i>SFDIN1-742083B</i>), and <i>Sunit fmc (SFDIN1-7428163)</i> |
| 3. | Means of identification of type, if marked on the vehicle/component/ separate technical unit : | Type label |
| 3.1. | Location of that marking: | On the top of the CPU |
| 4. | Category of vehicle: | Not applicable |



5. Name and address of manufacturer: Sunit Oy
Taitoraitti 1
FI-87400 Kajaani
FINLAND
6. In the case of components and separate technical units, location and method of affixing of the approval mark: Located in the type label.
7. Address(es) of assembly plant(s): See item 5.
8. Additional information (where applicable): See appendix
9. Technical service responsible for carrying out the tests: Nemko Oy
P.O.Box 19
FI-02601 Espoo, FINLAND
- SGS Fimko EMC Oy
P.O. Box 19
FI-02601 Espoo, FINLAND
- SGS Fimko Ltd.
(Särkiniementie 3)
P.O. Box 30
FI-00211 Helsinki, FINLAND
- SP Technical Research Institute of Sweden
P.O. Box. 857
SE-50115 Borås
SWEDEN
10. Date of test report: 16.06.2010, 15.02.2011, 12.11.2008,
26.09.2011, 27.02.2013, 2.12.2013,
4.12.2013, 11.12.2013, 26.12.2013,
30.05.2014, 21.11.2014, 31.07.2015,
21.07.2016, 03.10.2016, 07.09.2016,
29.08.2017 and 14.03.2018
11. No. of test report: 149606E, 156448, 116598e2, 188126,
231872E, 231873E, 248235-1, 248235-
2, 248236-2, 248236-1, 276386,
278242-1, 280927-1-1, 280927-1-2,
285183-1, 286034-1, 6P01814EC rev.1,
289253-3, 289253-4, 292235-1-1- and
292235-1-2



12. Remarks (if any):

This vehicle computer/taxi meter may contain the following components: central unit (see item 2, versions), display(s) (f7, f10, f12, f19, f22), USB-hub, USB 3.0 HUB, video camera (Sunit IC, Samsung, LG, Boyo Vision, Marshall or Wonwoo), USB remote controller, USB 4-key panel, power cable, display cable, video cable, XUSB cable, combination antenna, WLAN antenna, LCDi-display, alarm-button, Sunit Fox camera system, keyboard with backlight, Sunit MP-buttons/5-key panel USB.
For more detailed information, see page 7 of information document 201805021139.

13. Place:

Helsinki

14. Date:


03.05.2018

15. Signature:

Marko Sinerkari
Head of Unit

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


- Information document no. 201805021139, 02.05.2018, 7 pages
- Version information document 201803131048, 13.03.2018, 583 pages
- Version information document 201803131050, 13.03.2018, 608 pages
- Test report 292235-1-1, 14.03.2018, 23 pages
- Test report 292235-1-2, 14.03.2018, 24 pages
- Investigation report 21763, 26.04.2018, 1 page

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17. Reasons for extension:

Two new CPU-versions are added to the type-approval.

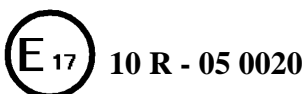
The series of amendments of the UN ECE Regulation 10, according to which the type-approval is granted, is changed from 04 to 05.

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Appendix to type approval communication form No. 050020 extension 10 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 pos/neg ground
 - 1.2. This ESA can be used on any vehicle type with the following restrictions: not applicable
 - 1.2.1. Installation conditions, if any: -
 - 1.3. This ESA can only be used on the following vehicle types: not applicable
 - 1.3.1. Installation conditions, if any: -
 - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from Annex 9):
 - Stripline test: ISO 11452-5:2002, 20-80 MHz; Absorber Chamber test: ISO 11452-2:2004, 80–2000 MHz
 - Absorber Chamber test: ISO 11452-2:2004, 20–2000 MHz
 - Bulk Current Injection test: ISO 11452-4:2005, 20-200 MHz
 - Absorber Chamber test: ISO 11452-2:2004, 80–2000 MHz
 - Bulk Current Injection test: ISO 11452-4:2005, 20-80 MHz
 - Absorber Chamber test: ISO 11452-2:2004, 80–2000 MHz
 - Bulk Current Injection test: ISO 11452-4:2005, 20-200 MHz
 - Absorber Chamber test: ISO 11452-2:2004, 200–2000 MHz



1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests:


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P.O. Box. 857
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2. Remarks:

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