Accessory device to a taximeter

Issued to
Structab AB, Slottsmöllan 14B, 302 31 HALMSTAD, Sweden

Type of accessory and intended use
Printer designated MTPR200, and accompanied software, intended to generate the print-outs required from STAFS 2012:5. The printer shall be used together with taximeter designated MegTax 310 and MegTax 350 covered by EC Type Examination Certificate No. 0402-MID- 51 65 02 revision 6 dated 2015-10-30 issued in accordance with directive 2004/22/EC.

In accordance with
The Swedish Act on Metrology and Verification STAFS 2012:5.

Certificate
SP Technical Research Institute of Sweden, hereby certify that the product described above fulfils the requirements stated in STAFS 2012:5. The certification is verified by assessment according to the procedure described in STAFS 2012:5, which includes type testing and surveillance of the factory production control.

Rated operating conditions

<table>
<thead>
<tr>
<th>Mechanic environment class:</th>
<th>M3 according to directive 2004/22/EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climatic environment:</td>
<td>-25 to +55 °C, Condensing, Closed (installed in a car)</td>
</tr>
<tr>
<td>Electromagnetic environment class:</td>
<td>E3 according to directive 2004/22/EC</td>
</tr>
</tbody>
</table>

Miscellaneous
Valid until: 30th October 2025
Conditions according to STAFS 2012:5 and SPs Certification Rules SPCR 179 apply.

This is the first issue of this certificate.

The principal characteristics and approval conditions are set out in the appendix hereto, which forms part of the approval document and consists of 2 pages. All the plans, schematic diagrams and documentations are recorded under reference file ELe SP05553.

30th October 2015

SP Technical Research Institute of Sweden
Certification

Lennart Månsson
Certification Manager

Anders Nilsson
Certification Officer
The accessory must correspond with the following specifications:

1. **Design of the instrument**

1.1 **Construction**

- **Product names**
  - MTPR200 (printer part)

- **Supply voltage**
  - Printer: 10-18 V

1.2 **Software**

The validation of software was based on the essential requirements given in STAFS 2012:5.

**Software version**

The following program versions are approved:

<table>
<thead>
<tr>
<th>Type of program</th>
<th>Program version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taximeter program MegTax 350</td>
<td>04.01A (dd1F)</td>
</tr>
<tr>
<td>Taximeter program MegTax 310</td>
<td>04.01A (88bf)</td>
</tr>
</tbody>
</table>

Where the values (hexadecimal) in brackets are the checksum.

The software identification numbers are to be interpreted in the following way:

**Example:**

Complete program version: 01.02B(21f2)

- 01 is the main version and is changed at bigger changes
- 02 is the part version and is changed at smaller changes
- B is the bug fix version
- (21f2) is the checksum

The software identification number and the checksum can be seen in the following way from the taximeter: choose MENY, RAPPORTER, VERSIONER, and TAXAMETERVERSION or make a “Taxameterkontroll”* choose MENY, RAPPORTER and TAXAMETERKONTROLL or press the PK button and choose TAXAMETERKONTROLL.

1.3 **Parameter settings**

In order for the printer to be mandatory, parameter “Tillsats typ” is to be set to 1.

“Tillsats typ” is seen by the use of MENY, RAPPORTER, TAXIDENTITET on the taximeter.
2 Labelling and inscriptions

2.1 Information to be borne by the instrument

The marking on the accessory shall contain the following information:
- the name of the manufacturer
- the serial number
- the designation or type name (according to “Product names” Appendix page 1)
- the certificate number
- the national Swedish marking STAFS 2012:5

Picture 2: Information to be given on the marking plate. Where XX is the manufacturer code (year and month), YYYY is to be replaced by the serial number and ZZ is manufacturer year. STAFS2012:5 and SP 516504 is national Swedish marking. The ART (Article number) and TYP (Designation) is to be replaces by article number or designation for that unit.

2.2 Further inscriptions, if necessary

Further inscriptions can be necessary.

3 User’s manual

User’s manuals intended to show how the different parts required by STAFS 2012:5 is to be shown had the titles “MegTax, Användarmanual, MegTax 350 Taxamter” and had the version number R5A, dated 2015-08-12 and MegTax, Användarmanual, MegTax 310 Taxamter” and had the version number R5A, dated 2015-08-12.

4 Applied environmental testing

Vibration

IEC 68-2-64 revision 1, test Fh (this is a higher severity than Class M3 in accordance with OIML D11):
- 10-20 Hz: 0,05 g²/Hz
- 20-500Hz: -3 dB/octave

Testing was carried out in three mutually perpendicular axes for 0.5 hours in each direction and the taximeter was connected to power during testing.

Dry Heat

OIML D11 with testing according to IEC 60068-2-2 test Bd, but with the duration 16h and the highest temperature +70°C.

The test object was connected to power during the test.
Cyclic damp heat/Cold
Testing of cold and damp heat was carried out in accordance with the climate sequence of IEC 60068-2-61.
First one cycle damp heat was carried out according to IEC 60068-2-30 edition 2 revision 1. test Db. temperature: +55 °C. The taximeter was not connected to power during testing. After recovery in controlled atmosphere during 1 h ±5 min cold test according to IEC 60068-2-2 edition 5 revision 2 test Ab at -40 °C during 16 h was carried out. After finalisation of the cold test 5 cycles of damp heat was carried out according to IEC 60068-2-30. edition 2. revision 1. test Db. +55 °C. The taximeter was not powered during testing.

Emission
EN 55022:2006, /A1:2007 class B

Immunity
OIML D11 12.2 Electrostatic discharged according to IEC61000-4-2, level 3
OIML D11 12.1.1/1 and 12.1.1/2 Radiated RF immunity according to IEC61000-4-3, level 3
OIML D11 12.1.1 Injected RF immunity according to IEC61000-4-6, level 3
OIML D11 14.2.1 Voltage variation according to ISO16750-2
OIML D11 14.2.2 Automotive voltage transient immunity according to ISO 7637-2, level 4
pulses 1, 2a, 2b, 3a, 3b, 4, 5
OIML D11 14.2.3 Automotive voltage transient immunity ISO 7637-3, level 4