

Accessory device to a taximeter

Issued to

Structab AB

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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 type MegTax 310 and MegTax 350 covered by EC Type Examination Certificate No. 0402-MID-516502 revision 6 dated 2015-10-30 issued in accordance with directive 2004/22/EC and taximeter designated type MegTax 410 covered by EC Type Examination Certificate No. 0402-MID-SC0130-19, dated 2019-06-27. Rise Certification Rule SPCR 179 issue 2019-03-28 has been applied.

In accordance with

The Swedish Act on Metrology and Verification STAFS 2012:5 (updated in accordance with STAFS 2016:15).

Certificate

RISE Research Institutes of Sweden AB, hereby certify that the product described above fulfils the requirements stated in STAFS 2012:5 (updated in accordance with STAFS 2016:15). 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

Mechanic environment class:	M3 according to directive 2014/32/EU
Electromagnetic environment class:	E3 according to directive 2014/32/EU
Climatic environment:	-25 to +55 °C, Condensing, Closed (installed in a car)

The principal characteristics and approval conditions are set out in the appendix hereto, which forms part of the approval document and consists of 3 pages. All the plans, schematic diagrams and documentations are recorded under reference file ELe 5P05553 and 8P07215.

Originally issued: 30th October 2015

Expiry date: 30th October 2025

This certificate replaces earlier issues. Conditions according to STAFS 2012:5 and RISE Certification Rules SPCR 179 apply.

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8P07215

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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



Picture 1: Printer MTPR200

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:

Type of program	Program version
Taximeter program MegTax 350	04.01A (dd1F)
Taximeter program MegTax 310	04.01A (88bf)
Taximeter program MegTax 410	01.01D (6403)

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.

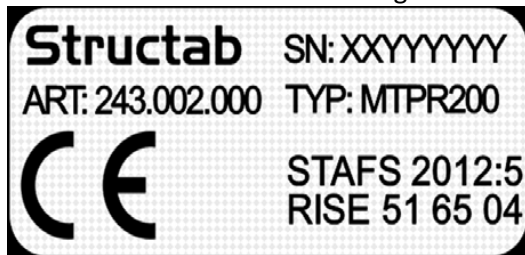
"Tillsats typ" is seen by the use of MENY, RAPPORTER, TAXIIDENTITET on the taximeter.

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), YYYYYY 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:

Title of manual	Version number	dated
MegTax, Användarmanual, MegTax 350 Taxamter	R5A	2015-08-12
MegTax, Användarmanual, MegTax 310 Taxamter	R5A	2015-08-12
MegTax, Användarmanual, MegTax 410 Taxameter	1.5	2019-06-24

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

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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

5 Traceability of reports concerning the STAFS 2012:5 type examination

STAFS 2012:5 type examination reports of accessory device MTPR200

Report	Title	Date
5P05553	Type examination of accessory device to a taximeter	2015-10-30
8P07215-TS	Supplementary examination of accessory device to a taximeter	2019-06-27
8P07215-02TS	Evaluation of software structure to an accessory to a taximeter	2019-05-02