



TYPE EXAMINATION CERTIFICATE

SP-SC0736-15

Accessory device to a taximeter

Issued to

TP Radio, Agenavej 37, 2670 GREVE, Denmark

Type of accessory and intended use

Printer designated PR1024S, and accompanied software, intended to generate the print-outs required from STAFS 2012:5. The printer shall be used together with taximeter designated TP Radio type Au2Tax/TX201B covered by EC Type Examination Certificate No. 0402-MID-SC0970-11 revision 7 dated 2016-04-08 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

Mechanic environment class:	M3 according to directive 2004/22/EC
Climatic environment:	-25 to +55 °C, Condensing, Closed (installed in a car)
Electromagnetic environment class:	E3 according to directive 2004/22/EC

Miscellaneous

Valid until: 8th April 2026

Conditions according to STAFS 2012:5 and SPs Certification Rules SPCR 179 apply.

This certificate is the first edition with this number

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 EL 5P06802.

8th April 2016

SP Technical Research Institute of Sweden Certification

Lennart Aronsson
Product Certification Manager

Anders Nilsson
Certification Officer



Certificate no. SP-SC0736-15, issue 1, 8th April 2016

SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden
Phone: +46 10-516 50 00
E-mail/internet: info@sp.se/www.sp.se

Swedish accredited certification bodies are appointed by SWEDAC, the Swedish Board for Accreditation and Conformity Assessment, under the terms of the Act. This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate including appendix consists of 4 pages, where this is page 1.

TYPE EXAMINATION CERTIFICATE

Appendix

The accessory must correspond with the following specifications:

1 Design of the instrument

1.1 Construction

Product names

Printer PR1024S (printer part)

Supply voltage

Printer: 9-16 V



Picture 1: Printer PR1024S

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:

Designation	Program version	Checksum
MID	SE_1.1.1	E0C9A2A3
STAFS	1.11 ESC/POS	577BB795

The software identification number and the checksums for MID software and STAFS software can be seen on the shift report, taximeter control and adaptation control

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

Certificate no. SP-SC0736-15, issue 1, 8th April 2016

SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden

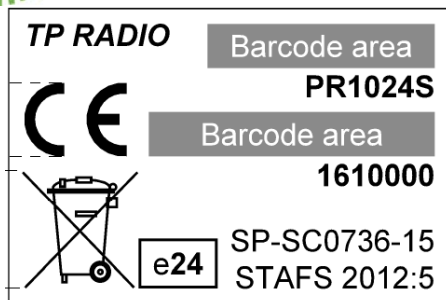
Phone: +46 10-516 50 00

E-mail/internet: info@sp.se/www.sp.se

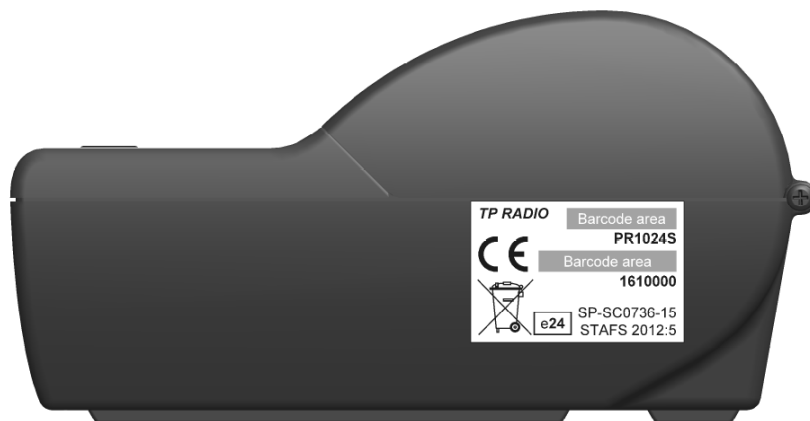


TYPE EXAMINATION CERTIFICATE

Appendix



Picture 2: Marking plate and Designation marking for the printer PR1024S



Picture 3: Placement of the marking plate

2.2 Further inscriptions, if necessary

Further inscriptions can be necessary.

3 User's manual

User's manual intended to show how the different parts required by STAFS 2012:5 is to be shown had the title "Au2Tax_SE Taximeter User manual Sweden" and had the version number 1.1.1.

4 Applied environmental testing

Vibration

IEC 60068-2-64 revision 1, test Fh (this is a higher severity than Class M3 in accordance with OIML R21):

- 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 R21, clause A.5.4.1 with testing according at IEC 60068-2-2 test Bd, but with the duration 16h and the highest temperature +55°C. Functional control was carried out at +55°C.

The test object was connected to power during the test.

Certificate no. SP-SC0736-15, issue 1, 8th April 2016

SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden

Phone: +46 10-516 50 00

E-mail/internet: info@sp.se/www.sp.se



Swedish accredited certification bodies are appointed by SWEDAC, the Swedish Board for Accreditation and Conformity Assessment, under the terms of the Act. This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate including appendix consists of 4 pages, where this is page 3.



TYPE EXAMINATION CERTIFICATE

Appendix

Cold

Testing of cold and damp heat was carried out in according to IEC 60068-2-2 edition 5 revision 2 test Ab at -25°C.

The test object was disconnected from power during the cold test. The test object was powered at the end of the cold test for the functional testing.

Cyclic damp heat

Two cycles of damp heat was carried out according to IEC 60068-2-30 edition 2 revision 1. test Db. temperature: +55 °C.

The test object was disconnected from power during the damp heat test. The test object was powered at the end of the damp heat test for the functional testing.

Emission

EN 55022:2006, /A1:2007 class B

Immunity

OIML R21 A.5.4.5.1 Radiated RF immunity according to IEC61000-4-3, 24 V/m

OIML R21 A.5.4.5.2 Injected RF immunity according to IEC61000-4-6, 24 V

OIML R21 A.5.4.6 Electrostatic discharged according to IEC61000-4-2, level 3

OIML R21 A.5.4.7.1 Automotive voltage transient immunity according to ISO 7637-2, level 4, pulses 1, 2a, 2b, 3a, 3b, 4 and 5a

OIML R21 A.5.4.7.2 Automotive voltage transient immunity ISO 7637-3, level 4, pulses 3a and 3b

OIML R21 A.5.4.3.1 Supply voltage limit variations according to ISO 16750-2, 9VDC/16VDC

OIML R21 A.5.4.3.2 Voltage drop below limit according to ISO 16750-2, 0-40-90%

Certificate no. SP-SC0736-15, issue 1, 8th April 2016

SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden

Phone: +46 10-516 50 00

E-mail/internet: info@sp.se/www.sp.se

Swedish accredited certification bodies are appointed by SWEDAC, the Swedish Board for Accreditation and Conformity Assessment, under the terms of the Act. This certificate may not be reproduced other than in full, except with the prior written approval by SP. The certificate including appendix consists of 4 pages, where this is page 4.

