TYPE EXAMINATION CERTIFICATE

SC0261-13

Accessory device to a taximeter

Issued to

Digitax, Voltavägen 2-4, 168 69 Bromma, Sweden

Type of accessory and intended use

Printer designated Printer Due, and accompanied software, intended to generate the print-outs required from STAFS 2012:5. The printer shall be used together with taximeter designated type Digitax F1+ covered by EC Type Examination Certificate No. 0402-MID-SC0260-13 dated 2015-10-07 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 +70 °C, Condensing, Closed (installed in a car)
Electromagnetic environment class:	E3 according to directive 2004/22/EC

Miscellaneous

Valid until: 7th 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 3 pages. All the plans, schematic diagrams and documentations are recorded under reference file ELe 3P01594.

7th October 2015

SP Technical Research Institute of Sweden
Certification

Lennart Aronsson
Product Certification Manager

Anders Nilsson
Certification Officer

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

The accessory must correspond with the following specifications:

1 Design of the instrument

1.1 Construction

Product names

Printer DUE (printer part)

Picture 1: Printer Due

Supply voltage

Printer: 11-16 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:

Type of program	Program version	Checksum
Taximeter program F1+	SVM04	47966

The software identification number and the checksums can be seen in the following way:

Example:
SVM03 (34306)

SVM is the country specific version
03 is the part version
(34306) is the checksum

The program version and checksum can be seen by the following way, press down “K2”, “K3” and “K4” keys at the same time. The program version will be shown in the small display and the checksum in the large display.

Alternatively if a printer is connected the program version and checksum can be read by making a “Taxameterkontroll”* (Taximeter) by pressing “K1” and “K3” at the same time.

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

1.3 Parameter settings

In order for the printer to be mandatory, parameter “STAFS mode” is to be set to 1. The parameter can be seen in “menu 5” in “Meny K3”. Press and hold “K3” until text “nEnu” is shown in the large display, press “K3” to choose between menus 0-6, the figures 0-6 is shown in the small display. The manufacturer sets this parameter.

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 and 3: *Marking plate and Designation marking for the printer DUE*

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 “Användarmanual SWE F1+MS V1.1” and had the version number 1.1, dated 2015-10-07.

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

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

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 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 D11 14.2.2 Automotive voltage transient immunity according to ISO 7637-2, level 4, pulses 1, 2a, 2b, 3a, 3b, 4 and 5a
OIML D11 14.2.3 Automotive voltage transient immunity ISO 7637-3, level 4, pulses 3a and 3b
OIML D11 12.2 Electrostatic discharged according to IEC61000-4-2, level 3

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