

Semel Oy taximeter system C30

Issued to

Semel Oy

Valimotie 21, 00380 HELSINKI, FINLAND

Semel Oy taximeter system C30 is fulfilling module B (Annex II) of directive 2014/32/EU on measuring instruments (MID), implemented in Swedish law by SWEDAC (The Swedish Board for Accreditation and Conformity Assessment) through STAFS 2016:1 The Measuring Instruments Regulations and STAFS 2016:8 The Regulations and Guidelines concerning Taximeters. Rise Certification Rule SPCR 302 has been applied.

Applicable essential requirements of directive 2014/32/EU

- Annex I, Essential requirements
- Annex IX (MI-007), Taximeters

Harmonised standards and normative documents used

OIML R21

Further applied documents

WELMEC 7.2, Software Guide (Issue 5)

Rated operating conditions

Measurand:	Time and or distance	Mechanic environment class:	M3
Measurement range:	Maximum 6 digits on the display (corresponding to the fare to be paid)	Electromagnetic environment class:	E3
Accuracy:	- Time elapsed: $\pm 0,1\%$ - Distance travelled: $\pm 0,2\%$ - Calculation of the fare: $\pm 0,1\%$ - Measuring range: 500-75 000 pulses/km	Climatic environment:	-25 to +55 °C Condensing Closed (installed in a car)

Originally issued: 27 June 2019

Expiry date: 27 June 2029

This certificate replaces earlier issues. The principal characteristics, approval conditions are set out in the appendix hereto, which forms part of the approval documents. The certificate including the appendix consists of 15 pages. All the plans, schematic diagrams and documentations are recorded under reference files ELe P702286, P901535, P90153, P906438, PX04579, PX07823, PX10562, PX23898, 4P04492 and 8P07148.

Issued by Notified Body 0402



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The instruments / measuring systems must correspond with the following specifications:

1. Design of the instrument

1.1 Construction

Product names

C30 consists of:

TM206e or TM206eC (Central processor unit)

TD321 (Display with numeric keypad)

RX80e or RX90hn (Printers) can be connected to the system but is not a requirement according to directive 2014/32/EU.

TM6000 consists of:

TM206e or TM206eC (Central processor unit)

TD321 (Display with numeric keypad)

RX80e or RX90hn (Printers) can be connected to the system but is not a requirement according to directive 2014/32/EU.

FR3000 consists of:

TM206e or TM206eC (Central processor unit)

TD330 (Display without numeric keypad)

RX80e or RX90hn (Printers) can be connected to the system but is not a requirement according to directive 2014/32/EU.

Measuring system description

The taximeter is designed to measure time and receive information to calculate distance. Time is measured by its internal real time clock and distance is calculated by the number of pulses received from the pulse generator of the car in relation to the given pulse constant. The supply voltage is taken from the battery of the vehicle. For connections see the schematic picture below.

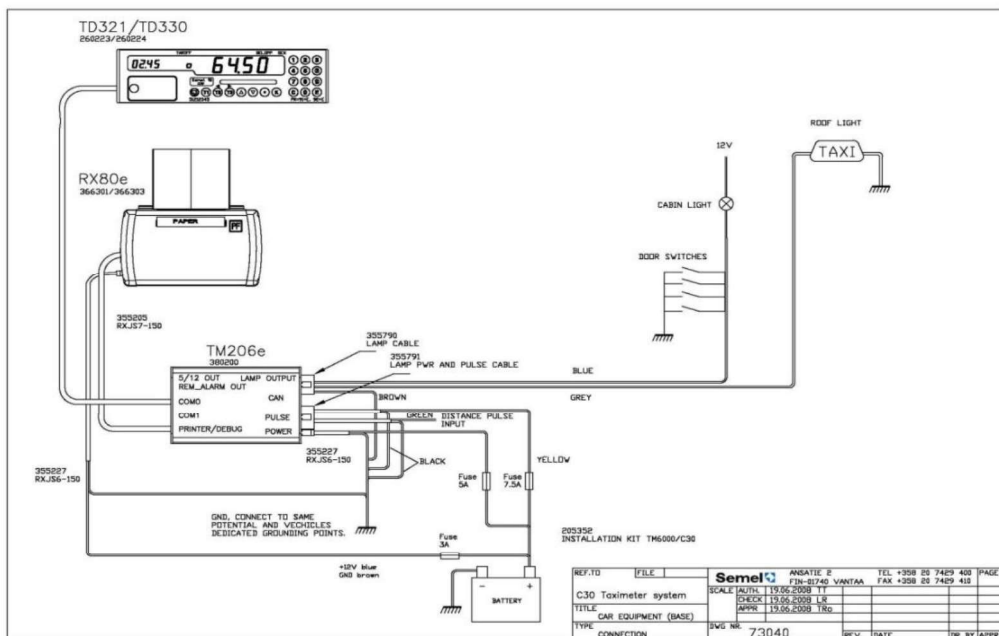


Figure 1: taximeter connections