

EU-type examination certificate

Number **T10528** revision 4 Project number SO16202411 Page 1 of 1

| * * * * * * * * | * | |
|---|---|--|
| Issued by | NMi Certin B.V., | |
| | designated and notified by the Netherlands to perform tasks with respect to conformity modules mentioned in article 17 of Directive 2014/32/EU, after | |
| | having established that the measuring instrument meets the applicable | |
| | requirements of Directive 2014/32/EU, to: | |
| | | |
| | | |
| Manufacturer | QTwee Group B.V. | |
| | Kerkenbos 1236 C | |
| | 6546 BE Nijmegen | |
| | The Netherlands | |
| | | |
| | | |
| Measuring instrument | Taximeter | |
| | Manufacturer's mark or name : Quipment | |
| | | |
| | Type : BCT Focus | |
| | | |
| | | |
| | Further properties are described in the annexes: | |
| | Description T10528 revision 4; Documentation folder T10528-1. | |
| | - Documentation loider 110528-1. | |
| | | |
| | | |
| Valid until | 15 January 2024 | |
| vana arta | | |
| | | |
| | | |
| Remarks | This revision replaces the earlier versions, except for its documentation | |
| | folder. | |
| | | |
| | | |
| + + + + + + + + + | | |
| Issuing Authority | NMi Certin B.V., Notified Body number 0122 25 August 2016 | |
| | 23 August 2010 | |
| | 1 th | |
| | | |
| | | |
| | C. Oosterman | |
| | Head Certification Board | |
| NMi Certin B.V. | This document is issued under the provision | |
| Hugo de Grootplein 1 3314 EG Dordrecht | that no liability is accepted and that the manufacturer shall indemnify third-party | |
| The Netherlands T +31 78 6332332 | liability. | |
| certin@nmi.nl | The designation of NMi Certin B.V. as Notified | |
| www.nmi.nl | Body can be verified at http:// ec.europa.eu/enterprise/newapproach/nando/ Bry A 122 | |



Number T10528 revision 4 Project number SO16202411 Page 1 of 4

1 General information about the taximeter

All properties of the taximeter, whether mentioned or not, may not be in conflict with the legislation.

Essential parts 1.1

| Number | Pages Description | | Remarks |
|------------|----------------------------|---|---------|
| 10528/0-02 | 4 | Block diagram, printed circuit board layout and relevant parts list | - |
| 10528/0-03 | 0528/0-03 1 Test connector | | - |

EMI protective measure: Ferrite on the cable from the taximeter to the vehicle.

1.2 Essential characteristics

| Electromagnetic immunity | class | | E3 | |
|---|-------------------|------------------------|----------------------|------------|
| Mechanical environment cl | ass | | M3 | |
| | temperature range | | -25 °C / +70 °C | |
| Climatic environment | humidity | | condensing | |
| | intende | d location closed | | closed |
| | | | Range | Resolution |
| Taximeter constant <i>k</i> [km ⁻¹] | | | 500 to 40 000 1 | |
| Time tariff [CU/h] | | 0,00 | 00 to 99 999,99 0,01 | |
| Distance tariff [CU/km] | | 0,00 to 99 999,99 0,01 | | 0,01 |
| CU = Currency Unit | | | | |
| Time measuring signal frequency | | | 2 Hz | |
| Power supply voltage | | | 12 – 24 V DC | |

Secured interfaces (annex IX, 4):

RS232; -

Roof sign output. -

Distance information: -CAN; or

_

Distance sensor input: Low voltage High voltage Trigger

-12 – 0,8 V 3 – 12 V high – low transition



Number **T10528** revision 4 Project number SO16202411 Page 2 of 4

| Software taximeter: | | | | | |
|-------------------------------------|--|------|-------------------|-----------|--|
| Identification | Specification (WELMEC 7.2): | | | | |
| Version number | Checksum | Туре | Risk Class | Extension | |
| TMC 12335 up to v01.01.22 | 32b283310891db667efa63e2202c633e8f17 2bfd17bae732f3470c499865c5ae | U | D | L/T/S | |
| TMC 12866 up to v01.01.22 | b034a080f2fc8fd3e166a78e133126f4a18b7 7595f0242f4533657e1a609e510 | | | | |
| TMC 12866 v01.01.22 to v02.00.00 | 573da8161a4f4c0eb34b5d2a512b81429e8 1dc8f08e004945d8ac9ce15aac943 | | | | |
| TMC 12866 from v02.00.00 | 9a11d030ba449370b50f05e6ccf5e015608c 16718c371989c174724eff0fe822 | | | | |

Software taximeter controller:

| Identification | | | Specification (WELMEC 7.2): | | |
|----------------|--|------|-----------------------------|-----------|--|
| Version number | Checksum | Туре | Risk Class | Extension | |
| TMC 12335 | b562a355274053cace8d82ddec4ba9a0048a 31eb2c02b62094d29ed5f00ffaed | U | D | L/T/S | |
| TMC 12866 | 7ae8fa7f16ee83bc0d22a5929c0b57298b7b 0442d85e13b4007362cb016d6f93 | | | | |

Displaying parameters:

| From operation position: For hire | | | |
|---|---|--|--|
| To display | Press or [action] | | |
| totaliser data 'Q' button (options), Activatie Info, Next Page '>' button, Next | | | |
| button, Totalizer Waard button | | | |
| software checksum | 'Q' button (options), Activatie Info, Next Page '>' button, Next Page '>' | | |
| | button, Totalizer Waard button | | |
| tariff checksum | [login as service engineer], TM Tarief plannen, select tarief, Tarief | | |
| checksum button | | | |
| taximeter constant | (permanently shown in right bottom corner of display) | | |
| non-resettable counter | 'Q' button (options), Activatie Info, Next Page '>' button, Next Page '>' | | |
| for taximeter constant | button, Totalizer Waard button | | |
| applied tariffs | [login as a driver], 'Q' button (options), Next Page '>' button, TM | | |
| | Taximeter button; | | |
| Or: [login as service engineer], TM Tarief plannen | | | |
| | | | |

List of legally relevant functions:

- Display checking;
- Calculation modes S or D, incorporated in the tariff structure;
- Automatic change of tariffs due to:
 - distance of the trip;
 - duration of the trip;
 - time of the day;
 - date;
 - day of the week;



Number **T10528** revision 4 Project number SO16202411 Page 3 of 4

- Operating positions "For Hire", "Hired", "Stopped";
- Totaliser data;
- Long term data storage.

1.3 Essential shapes

| Number Pages | | Description | Remarks |
|--------------|---|------------------------------------|---------|
| 10528/0-01 | 2 | General overview and exploded view | - |

Markings:

- Fulfil the requirements stated in the legislation;
- The descriptive markings plate is fixed to the taximeter.
 - Markings marked on the right side (seen on the front) of the taximeter:
 - Manufacturers name or mark;
 - EU-type examination certificate number.
 - Markings displayed by software:
 - Taximeter constant is permanently shown in the display.
 - Software identification, see 1.2.

1.4 Conditional parts

The taximeter may be equipped with the following peripheral device(s):

- Printer with electromagnetic environment class E3;
- Device(s) prescribed by national legislation.

1.5 Conditional characteristics

Cut-off power supply voltage : 7 V DC;

Working time limiter, only allowed in operation position 'For Hire'.

The taximeter may be equipped with one or more of the following secured interfaces, either by mechanical or software sealing:

- Magstripe;
- GPS/3D;
- Camera;
- USB Host BCT;
- USB host external;
- Microphone;
- Speaker;
- GPRS/GSM;
- Ethernet;
- RS232.



Number **T10528** revision 4 Project number SO16202411 Page 4 of 4

1.6 Non-essential parts

The taximeter may be connected to non-essential devices, for example but not limited to mobile data terminal, card readers, seat sensors and roof lights, provided that:

- They do not present primary data not presented by the taximeter;
- They do not lead to an instrument having other essential characteristics than those fixed by this type-examination document.

2 Seals

To secure components that may not be dismantled or adjusted by the user, the taximeter has to be secured in a suitable manner on the locations indicated in the drawing:

| Number | Pages | Description | Remarks |
|------------|-------|-------------|---------|
| 10528/0-04 | 2 | Sealing | - |

Sealing and separate securing of parameters:

- ISO7816 smartcard system with pincode gives secure access to selected modus / service. No mechanical seal needs to be broken.
- General settings (including settings depending on national regulations) are protected by an identifier and a checksum;
- Tariffs are proteced by an identifier (date) and a checksum and can only be changed by using a service card;
- Adjustment is protected by using the smartcard "keuringskaart" by authorized staff. Changes are logged in the audit-trail and the non-resettable event counter increments on every single change-event.
- Depending on national regulations the identifiers and/or checksums and/or event counter value(s) are marked on the prescribed provision.

3 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the taximeter fulfil the requirements of Directive 2014/32/EU.