



# EU-type examination certificate

Number **T11593** revision 26  
Project number 4081424  
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Issued by

NMi Certin B.V.,  
designated and notified by the Netherlands to perform tasks with respect to  
conformity assessment procedures 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

Euphoria Software BV  
Wilhelminapark 36  
5041 EC Tilburg  
The Netherlands

Measuring instrument **Taximeter**

Manufacturer's mark or name : cabman®  
Type designation : MDT

Further properties are described in annexes:

- Description T11593 revision 26;
- Documentation folder T11593-4;
- Evaluation report ER11593 revision 26.

Valid until

24 May 2029

Initially issued

24 May 2019

Remark

This revision replaces the earlier versions except for its documentation folder

Issuing Authority

**NMi Certin B.V., Notified Body number 0122**  
20 August 2026

Certification Board

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## 1 General information about the taximeter

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

### 1.1 Essential parts

| Number     | Pages | Description                  | Remark          |
|------------|-------|------------------------------|-----------------|
| 11593/0-01 | 1     | Modem baseboard              | Layout – top    |
| 11593/0-02 | 1     | Modem baseboard              | Layout – bottom |
| 11593/0-03 | 3     | Modem baseboard              | Parts list      |
| 11593/1-01 | 2     | Modem baseboard Revision 8   | Layout          |
| 11593/1-02 | 2     | Modem baseboard Revision 8   | Parts list      |
| 11593/0-04 | 1     | Modem 2g4g module            | Layout – top    |
| 11593/0-05 | 1     | Modem 2g4g module            | Layout – bottom |
| 11593/0-06 | 1     | Modem 2g4g module            | Parts list      |
| 11593/3-01 | 1     | Modem 2g4g module Revision 3 | Layout – top    |
| 11593/3-02 | 1     | Modem 2g4g module Revision 3 | Layout – bottom |
| 11593/3-03 | 1     | Modem 2g4g module Revision 3 | Parts list      |
| 11593/4-04 | 2     | Display 7 inch               | Layout          |
| 11593/0-09 | 1     | Display 7 inch               | Parts list      |
| 11593/3-04 | 1     | Display 7 inch Revision 9    | Layout – top    |
| 11593/3-05 | 1     | Display 7 inch Revision 9    | Layout – bottom |
| 11593/3-06 | 1     | Display 7 inch Revision 9    | Parts list      |
| 11593/4-01 | 2     | Display 5 inch               | Layout          |
| 11593/4-02 | 2     | Display 5 inch               | Parts list      |

EMI protective measure: plastic shield at baseboard connector to prevent ESD.

## 1.2 Essential characteristics

|                                                            |                       |                        |                       |
|------------------------------------------------------------|-----------------------|------------------------|-----------------------|
| Electromagnetic immunity class                             |                       | E3                     |                       |
| Mechanical environment class                               |                       | M3                     |                       |
| Climatic environment                                       | temperature range     | -25 °C / +70 °C        |                       |
|                                                            | humidity              | condensing             |                       |
|                                                            | intended location     | closed                 |                       |
|                                                            |                       | Range                  | Resolution            |
| Distance signal generator constant $k$ [km <sup>-1</sup> ] |                       | 500 to 100 000         | 1                     |
| Time tariff [Currency Unit/h]                              |                       | 0,00 to 3 600,00       | 0,01                  |
| Distance tariff [Currency Unit/km]                         |                       | 0,00 to 140,00         | 0,01                  |
| Time measuring signal frequency                            |                       | 10 Hz                  |                       |
| Power supply voltage                                       |                       | 9 – 16 V <sub>DC</sub> |                       |
| Distance information                                       | distance sensor input | Low voltage            | -12,0 – 0,8 V         |
|                                                            |                       | High voltage           | 3,0 – 12,0 V          |
|                                                            |                       | Trigger                | Low - high transition |
|                                                            | CAN bus interface     | Manufacturer           | Beijer Automotive     |
|                                                            |                       | Type                   | BCI-2                 |
|                                                            |                       | Remark                 | USB connector covered |
| Secured interfaces (annex IX, 4)                           |                       | RS232, CAN, USB        |                       |



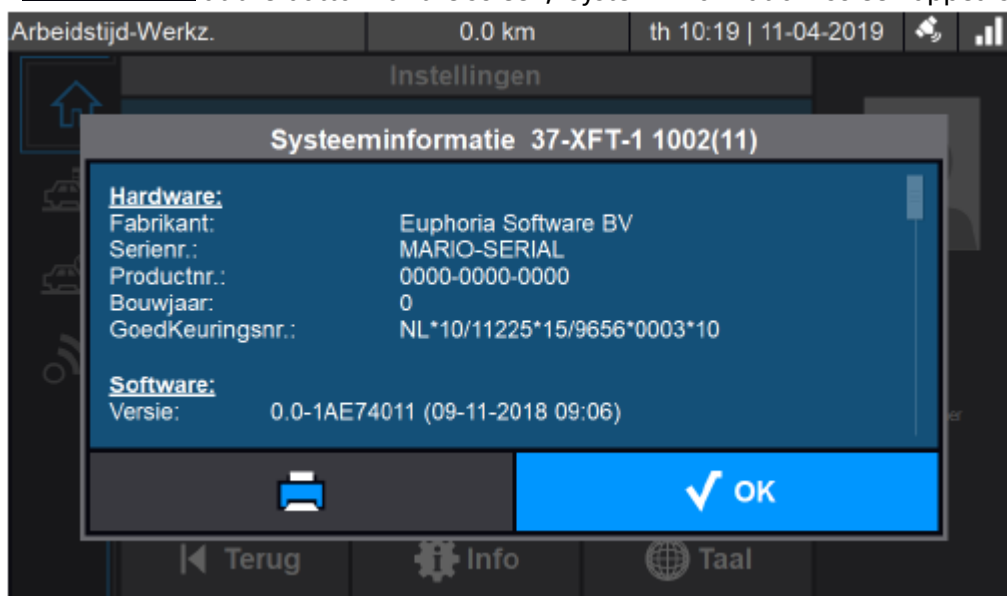
# Description

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| Software | Identification |              |        | Specification (WELMEC 7.2) |            |               |
|----------|----------------|--------------|--------|----------------------------|------------|---------------|
|          | Version        | Code (CRC32) | Remark | Type                       | Risk Class | Extension     |
|          | 1.2-221B5D53   | 7D5CEAC      | -      | U                          | D          | O / S / D / L |
|          | 1.3-22D37B2D   | ABEB74BF     | -      |                            |            |               |
|          | 1.3-23566663   | A94BB864     | -      |                            |            |               |
|          | 1.3-236773EF   | 7B857C70     | -      |                            |            |               |
|          | 1.3-238E4978   | B6448AA3     | -      |                            |            |               |
|          | 1.3-23CF5E52   | F6C10D17     | -      |                            |            |               |
|          | 1.3-24327A42   | 7AFF5ECD     | -      |                            |            |               |
|          | 1.4-2387427F   | 8E0F358      | -      |                            |            |               |
|          | 1.4-23C643D7   | 62CF4A09     | -      |                            |            |               |
|          | 1.4-24386690   | D944C4CB     | -      |                            |            |               |
|          | 1.4-246A5679   | 43B61A27     | -      |                            |            |               |
|          | 1.4-24AE5297   | A4528110     | -      |                            |            |               |
|          | 1.5-24D8752D   | B15F7FDE     | -      |                            |            |               |
|          | 1.5-252D6A24   | 71AECAE9     | -      |                            |            |               |
|          | 1.5-25354EDD   | C0B4E153     | -      |                            |            |               |
|          | 1.5-255D4E40   | C43B056D     | -      |                            |            |               |
|          | 1.6-256C62D9   | E88CC3E      | -      |                            |            |               |
|          | 1.6-25875780   | 31737E3B     | -      |                            |            |               |
|          | 1.6-25A35497   | 486FC07F     | -      |                            |            |               |
|          | 1.6-25D5773C   | 12F3F54E     | -      |                            |            |               |
|          | 1.7-25B16E69   | F99A8500     | -      |                            |            |               |
|          | 1.8-25E364E8   | FB305214     | -      |                            |            |               |
|          | 1.8-25F864AB   | EA881DF6     | -      |                            |            |               |

Displaying parameters, select:

- Home tab  on left side of touch screen;
- Gear icon  on the bottom of the screen;
- Info icon  at the bottom of the screen, 'System Information' screen appears:



By scrolling through this screen, the following information is displayed:

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| Hardware                 | Information                                                                    |
| Software                 | Software version and CRC32                                                     |
| Activation settings      | -                                                                              |
| Examination settings     | Distance signal generator constant<br>Non-resettable counter over the constant |
| Commercial options       | 'COM3 lock'                                                                    |
| Internal Taximeter       | Totaliser data                                                                 |
| Software history         | History on software updates                                                    |
| Taximeter tariff updates | Tariff package identification                                                  |

Displaying applied tariffs:

- Press taximeter tab ;
- The list of installed tariffs is displayed.

Legally relevant functions:

- 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.
- Operating positions "For Hire", "Hired", "Stopped";
- Totalising;
- Long-term data storage;
- Checking plausibility of distance measurement signal:
  - Detecting high speed.
- Test connector:

| Number     | Pages | Description    | Remark |
|------------|-------|----------------|--------|
| 11593/0-10 | 1     | Test connector | -      |

## 1.3 Essential shapes

| Number     | Pages | Description    | Remark |
|------------|-------|----------------|--------|
| 11593/0-11 | 1     | Cabman MDT Box | -      |
| 11593/0-12 | 1     | Display 7 inch | -      |
| 11593/4-03 | 1     | Display 5 inch | -      |

Markings:

- fulfil the requirements stated in the legislation;
- are displayed on the display except for the markings required on the descriptive markings plate;
- are visible without the use of tools after installation;
- are marked on the Cabman MDT Box.

## 1.4 Conditional parts

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

- Printer brand cabman, type Mobile Pro Encrypt;
- Printer brand cabman, type Wepoy;
- Device(s) prescribed by national legislation.

## 1.5 Conditional characteristics

Cut-off power supply voltage : 6,1 V<sub>DC</sub>;

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

- Passenger sensor input;
- Card reader;
- Vehicle interior light output;
- Roof sign output.

## 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.

## 1.7 Non-essential characteristics

- Working time registration;
- Registration of fiscal data.

## 2 Seals

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

| Number     | Pages | Description       | Remark |
|------------|-------|-------------------|--------|
| 11593/0-13 | 15    | Tamper protection | -      |

Sealing and separate securing of parameters:

- General settings (including settings depending on national regulations) are protected by identifier and code;
- Tariffs are protected by identifier and code and need a BCT card (keuringskaart) to change;
- Adjustment of vehicle parameters is protected by event counter and need a BCT card (keuringskaart) to change.

Hardware sealing:

- Option 'COM3 lock' is switched to 'on'. 'COM3 lock' is part of the physically sealed test connector.

Depending on national regulations the identifiers and/or checksums and/or event counter value(s) are marked on the prescribed provision.

Sealing after installation is described in document "Cabman MDT installatie handleiding".

## 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.