EU-type examination certificate

Number **T11593** revision 11
Project number 3921011

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	:	MDT

Further properties are described in annexes:
– Description T11593 revision 11;
– Documentation folder T11593-4.

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
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Certification Board

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1 General information about the taximeter

All properties, whether mentioned or not, may 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

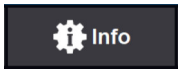
1.2 Essential characteristics

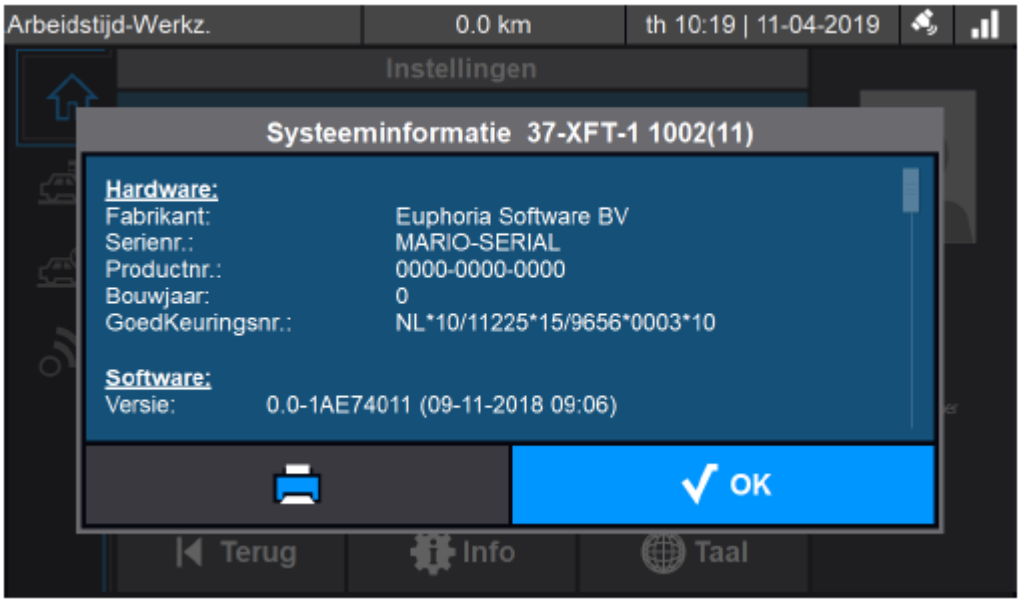
Electromagnetic immunity class		E3	
Mechanical environment class		M3	
Climatic environment	temperature range	-25 °C / +70 °C	
	humidity	condensing	
	intended location	closed	
		Range	Resolution
Distance signal generator constant *k* [km^{-1}]		500 to 100 000	1
Time tariff [CU/h]		0,00 to 3 600,00	0,01
Distance tariff [CU/km]		0,00 to 140,00	0,01
CU = Currency Unit			
Time measuring signal frequency		10 Hz	
Power supply voltage		9 - 16 V DC	

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	

Software	Identification			Specification (WELMEC 7.2)		
	Version	Code (CRC32)	Remark	Type	Risk Class	Extension
	1.2-221B5D53	7D5CEAC	-	U	D	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	-			

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

Legally relevant functions:
- Calculation mode S or D, included 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” and “Stopped”;
- Totalising;
- Long-term data storage;
- Checking plausibility of distance measurement signal:
  - Detection of 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

Protected interfaces that not need to be secured:
- Card reader;
- Passenger sensor input;
- Car light switch / Roof sign output;
- Cut-off power supply voltage: 6,1 V_{DC}.

1.6 Non-essential parts

The taximeter may be connected to non-esstial devices, for example, but not limited to: mobile data terminal, card readers, GPS antenna, seat sensors and roof lights, provided that they:
- Do not present primary data not presented by the taximeter;
- 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 has to be 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:
- The general settings (including settings depending on national regulations) are protected by an identifier and a code;
- The tariffs are proteced by an identifier (date) and a code and can only be changed by using a BCT card (keuringskaart);
- The adjustments to the vehicle parameters are protected by an event counter and can only be changed by using a BCT card (keuringskaart).

Hardware sealing:
- The option ‘COM3 lock’ shall be switched to ‘on’. ‘COM3 lock’ is part of the test connector, which is physically sealed.

Depending on national regulations the identifiers and/or codes 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.