



EU-type examination certificate

Number **T11593** revision 27
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 27;
- Documentation folder T11593-4;
- Evaluation report ER11593 revision 27.

Valid until

24 May 2029

Initially issued

24 May 2019

Remark

This revision replaces the earlier versions except for its documentation folder

Issuing Authority

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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 ⁻¹]		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 _{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	



Description

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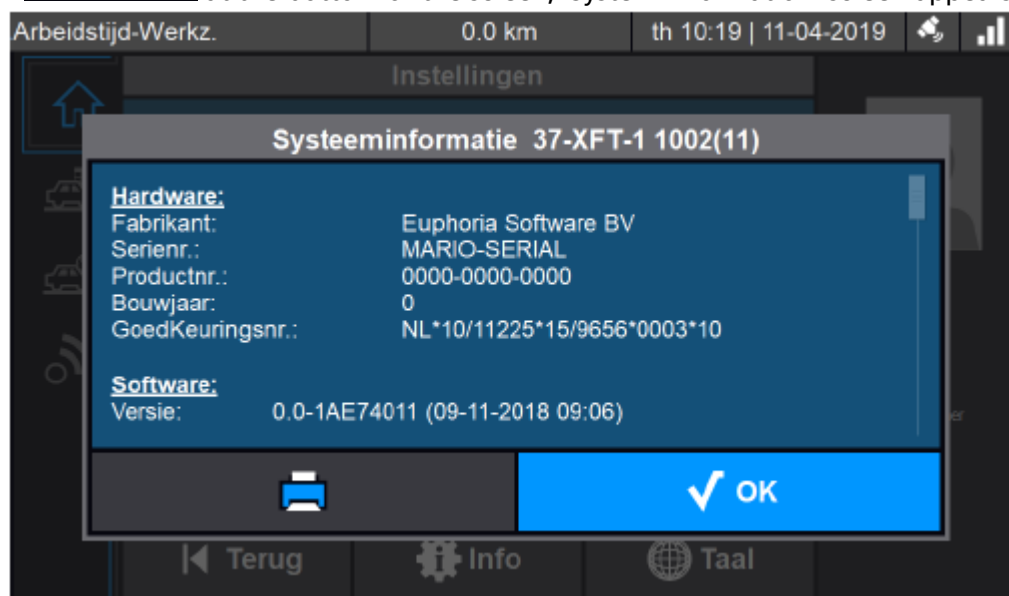
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Software	Identification			Specification (WELMEC 7.2)		
	Version	Code (CRC32)	Remark	Type	Risk Class	Extension
	1.2-221B5D53	7D5CEAC	-	U	D	O/S/D/L
	1.3-22D37B2D	ABEB74BF	-			
	1.3-23566663	A94BB864	-			
	1.3-236773EF	7B857C70	-			
	1.3-238E4978	B6448AA3	-			
	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	-			
	1.6-260F5E6D	6A096B04	-			
	1.7-25B16E69	F99A8500	-			
	1.8-25E364E8	FB305214	-			
	1.8-25F864AB	EA881DF6	-			
	1.8-260F70E5	36F7541	-			

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 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_{DC};

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.