

EU-type examination certificate

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

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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	
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Remarks	This revision replaces the earlier versions, except for its documentation	
	folder.	
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Issuing Authority	NMi Certin B.V., Notified Body number 0122 25 August 2016	
	23 August 2010	
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	C. Oosterman	
	Head Certification Board	
NMi Certin B.V.	This document is issued under the provision	
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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

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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.