



EC-type examination Certificate

Number **T10138** revision 12
Project number SO13203143
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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 9 of Directive 2004/22/EC, after
having established that the measuring instrument meets the applicable
requirements of Directive 2004/22/EC, to:

Manufacturer HALE Electronic GmbH
Eugen-Müller Straße 18
A-5020 Salzburg
Austria

Measuring instrument **Taximeter**
Manufacturer's mark or name : HALE
Type : Microtax®-06 / MCT-06

Further properties are described in the annexes:
– Description T10138 revision 12;
– Documentation folder T10138-4.

Valid until 13 October 2018

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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INSPECTION
RvA | 122

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	Remarks
10138/10-01	3	Leiterplatte MCT-5021	Component layout & essential components list

1.2 Essential characteristics

Electromagnetic immunity class		E3
Mechanical environment class		M3
Climatic environment	temperature range	-25 °C / +85 °C
	humidity	condensing
	intended location	closed
	Range	Resolution
Device constant k [km ⁻¹]	500 to 65535	1
Time tariff [CU/h]	0,02 to 163830,00	0,02
Distance tariff [CU/km]	0,002 to 32766,00	0,002
CU = Currency Unit		
Time measuring signal frequency		10 Hz
Power supply voltage		9 – 18 V DC

Secured interfaces (annex MI-007, 4):

- RS232;
- (HALE) CAN;
- CEY-contact;
- Roof sign output;
- External lamps directly or via serial lamp driver (SLD);
- Taximeter status and trip record (intended for data radio).

Distance information: - CAN; or

- Distance sensor input: Low voltage: 0 – 1,6 V
High voltage: 3,5 – 18 V
Trigger: high-low transition



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Software:

- Identification:

Version	Checksum	Remarks
M.EUd60	58963	On the 7-segment display the letter M is displayed as capital letter N.
M.EUb71	36154	
M.EUb72	45825	
M.EUF60	27557	
M.EUb73	50800	
M.EUd72	49185	
M.EUd65	58351	
M.EUd73	35501	
M.EUd74	15511	
M.EUd80	24272	
M.EUd85	11895	

- Specification (WELMEC 7.2):
 - Type P;
 - Risk Class C;
 - Extension L and T (for HALE CAN).

Recalling the totaliser data:

From the position "For Hire":

- Press button 2;
- Press button 4;
- Press button 4 to scroll through the shift totalizers dxx;
- Press button 4 to scroll through the absolute totalizers Axx.

Printing the firmware and country settings identification and checksum, the tariff checksum and the device constant (software version M.EUd72 and higher):

From the position "For Hire":

- Press button 2 and 3 together;
- Press button 3;
- Press button 4;
- Press button 2 and 3 together; printing will start.

Recalling the firmware and country settings identification and checksum and the tariff checksum:

From the position "For Hire":

- Press button 2 and 3 together;
- Press button 3;
- Press button 4 to show the firmware version and country setting identification;
- Press button 4 to show the firmware checksum (P.CSU);
- Press button 4 to show the country settings checksum (C.CSU);
- Press button 4 to show the checksum of the current tariff (ATCS);
- Press button 4 to show the checksum of the future tariff (FTCS, only if programmed).



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Recalling the event counter over the device constant, the device constant and the tariff parameters:

From the position "For Hire":

- Press button 2 and 3 together;
- Press button 3;
- Press button 1 to show the device constant event counter and the device constant;
- Press button 4 to show the tariff modification counter;
- Press button 4 to scroll through the tariff variables.

Devices:

- Display check;
- Normal 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;
 - Fare;
 - Change of speed.
- Operating positions "For Hire", "Hired", "Stopped";
- Remote "fixed price" setting;
- Remote selection of "Initial hire fee"
- Long term data storage for the totaliser data;
- Long term data storage for the trip data (electronic receipt journal);
- Test connector, see document: Connection diagram Microtax®-06, number 10138/10-02;
- Depending on national regulations:
 - Remote downloading of tariff data in operating position "For Hire";
 - Discount tariff: manual entry of discount percentage, displayed with two decimals or, if not possible, the rounded discount is used in further calculations. Activation of the discount tariff is protected by a seal.

1.3 Essential shapes

Number	Pages	Description	Remarks
10138/10-04	1	Exploded view	-

Markings:

- Fulfil the requirements stated in the legislation;
- The descriptive markings plate is fixed to the front of the taximeter.

1.4 Conditional parts

The taximeter can be fitted with the following peripheral device(s):

- Printer;
- Navigation system for retrieval of addresses;
- Device(s) prescribed by national regulations.

The taximeter may be equipped with one or more of the following secured interfaces:

- Passenger sensor input.

1.5 Conditional characteristics

Cut-off power supply voltage : 8,5 V DC;

Optional software : working time system (in M.EUd73 and higher).

1.6 Non-essential parts

The taximeter may be connected to non-essential devices, for example but not limited to mobile data terminals, 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 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:

- General instructions for operation of Microtax®-06, number 10138/10-03 (see item 15).

Sealing and securing of parameters:

- The general settings (country settings) are protected by an identifier and a checksum;
- The tariffs are protected by a checksum and can only be changed by using a service key and breaking a hardware seal;
- The following features may be present in the country settings, for countries where national legislation allows:
 - Tariff update with service key without breaking a hardware seal;
 - Only tariffs that were created with Internet Tariff Editor are accepted by the taximeter.
- The adjustments to the vehicle are protected by a mechanical sealing and an event counter;
- 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 2004/22/EC.