

Halda M2 Mini Taximeter

Quick User Guide

Version 1.1

M Files ID 41542



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1. General

1.1 General information

Halda M2 Mini Taxi Meter is a modern, compact and versatile taxi meter for professional use.

The delivery content of the Halda M2 Taxi meter includes a TM208 central unit, a TT240 touch screen, a 4G antenna, a Bluetooth antenna, a Semel Premium connection cable set and a taxi meter quick user guide (this document).

The taxi meter payment traffic connection and software update connection are implemented using a 4G data connection. The SIM card for the data connection must be obtained by the customer and delivered to an authorized Semel/Halda installation store before installation and commissioning of the device.

Please note!

The product delivery does not include a SIM card; this must be purchased by the taxi operator himself for devices compatible with the M2 Taxi meter service. The recommended minimum speed of the data connection of the SIM card connected to the devices is 10 Mbit/s and at least 1 GB/month of data.

It should be noted that the data traffic speeds announced by telecom operators for different connections are theoretical maximum speeds, so the 10 Mbit/s recommendation is sized accordingly. The minimum requirement for the actual communication speed is 2 Mbit/second.

A comprehensive number of different calendars, tariffs and surcharges can be defined with the Halda M2 Mini Taximeter (39 surcharges Max).

The connection of the taxi meter to the payment terminal and the Contact Tablet dispatch terminal is implemented using a secure Bluetooth connection in the system components of the Halda M2 Mini Taxi meter.

The Halda M2 Mini Taximeter has been tested and approved in accordance with the requirements, essentially meeting the requirements of the EU measuring device directive 2014/32/EU and the EMC directive 2014/30/EU.

Please note! The Halda M2 Mini Taximeter is permitted to be installed, programmed and sealed only by an authorized Semel/Halda Installation Shop.

1.2 User Manuals



The quick user guide guides the basic use of the taximeter in the form of a condensed guide. It is also useful for the taxi meter user to familiarize him/herself with the detailed and up-to-date Halda M2 Mini Taxi Meter user manual published on Semel Oy's website www.halda.com.

The above-mentioned user manual on the website www.halda.com is updated according to the functions of the taximeter program in use at any given time and provides the capabilities to use the taximeter's functionalities in a variety of ways.

This quick user guide guides you through the basic functions and use of the Halda M2 Mini Taxi Meter with examples. You can start using the taxi meter by following these instructions.

1.2.1 QR code for Halda M2 Mini Taximeter User Manual

The latest user manual is always published on www.halda.com. The user manual can also be opened for reading on a mobile phone with the QR code of the taxi meter. **Please note! The phone must have a program suitable for opening a PDF file.**

- Browse pages by pressing the icon 
- Press the info button on the taxi meter 
- The QR code opens on the taxi meter screen
 - Read the QR code with the mobile phone camera
 - The phone recognizes the QR code and displays a notification
 - Open the QR code link to the user manual by tapping the notification on the phone screen
 - Follow the instructions on your phone to open the user manual.




1.3 Touch screen

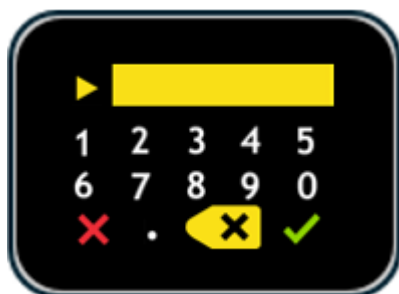
The M2 Mini Taxi meter touch screen is divided into three areas containing operating buttons, taxi meter status display and price/extra charge/currency display area.





Figure 1 Taximeter function areas

1.3.1 Numeric keypad


The numeric keypad is used to set numerical values and sums, as well as to activate function codes. The numeric keypad opens by touching the activation area of the screen (see picture above) or by pressing the button .



The delete button  clears incorrect numbers one by one.





























Decimal numbers are separated with the dot button .

Confirm the keyed number series/code with the button .

Press  to close the numeric keypad.

1.3.2 Icons and buttons

The basic icons and buttons of the taxi meter are listed on the table below. More detailed information about icons and buttons is available in the Halda M2 Mini Taxi meter user manual. Instructions to read the QR code can be found in section 1.2.1.

	Roof light is on		Cashier
	Start driving shift		You can select the invoice method in the invoicing menu
	Stop driving shift		You can split the fee by money, number of passengers or %
	Shift information for current shift		Extra charge – select from the menu
	Return to previous page		Payment receipt
	Accept function		Bypass customer receipt
	Cancel function		Cancellation/correction of a payment transaction
	Delete characters		Print a copy of the latest receipt
	Browse/Change page		Print the shift report
	Select tariff		Show distance driven on the screen
	Tariff selector menu. Use arrow keys to browse between tariffs		Pause (coffee break etc.)
	Fixed price, enter the agreed price for the trip		Private driving
	Taxi meter paused, tariff not running		Service mode
	Return to tariff from pause mode		Data connection speed test

2. How to use the M2 Mini taxi meter

This section describes the basic functionalities of M2 Mini taxi meter. You can read more detailed information about the taxi meter's functions and parameters in the M2 Mini taxi meter's user manual.

2.1 Starting and stopping the driving shift

2.1.1 Off mode, maintenance drive

When you start the system, the taxi meter is in Off mode, the service run is active, and the distance driven will be registered as a maintenance run.

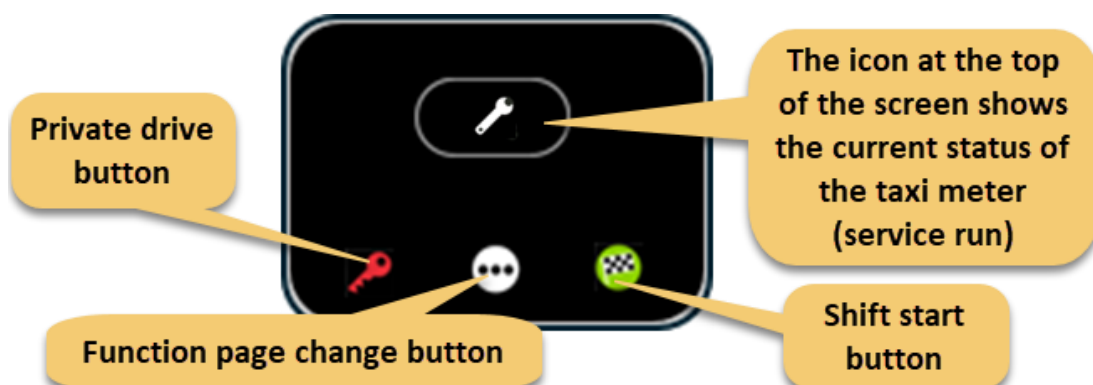


Figure 2 Taximeter start page, service drive active

2.1.2 Off mode, private driving

To switch the taxi meter in private mode, press the red key icon. The meter will remain in Off mode and the private driving mode is active. The distance traveled in this mode is registered as a private drive.

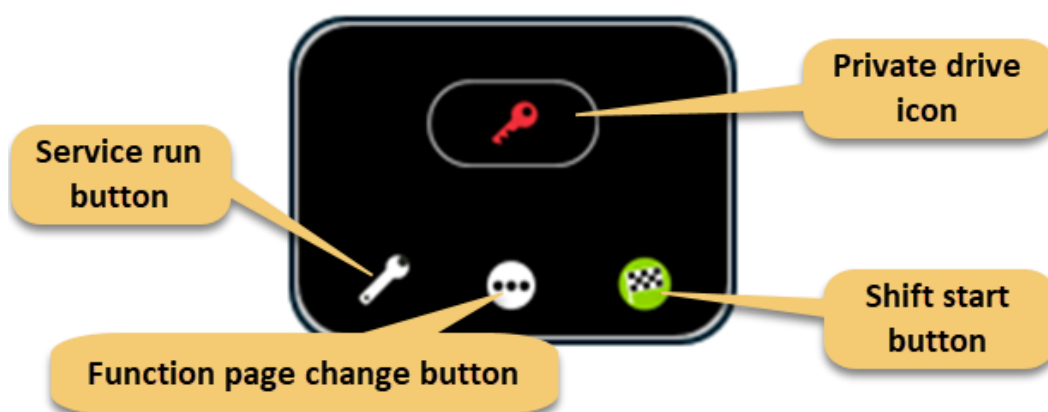


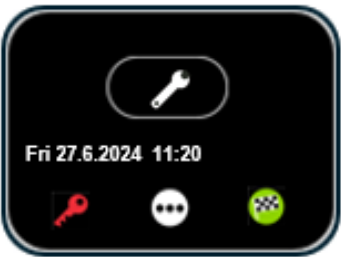







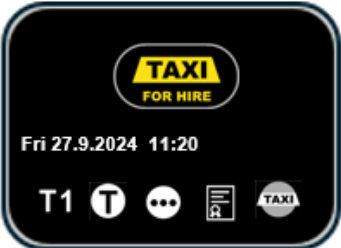
Figure 3 Private driving active

2.1.3 Starting the driving shift

At the start of the driving shift, the vehicle's mileage and driver ID are recorded.








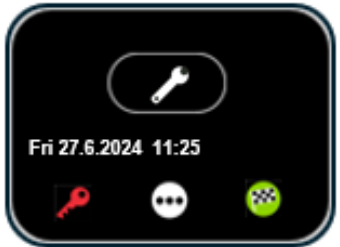
There are two ways to start the shift:

1. Shift can be started by entering the 6–8-digit driver ID.
2. The other option is to swipe the personal driver card in the magnetic card reader of the payment terminal.

Taximeter status	Taximeter display	Function
The taxi meter is OFF		<p>Option 1. To start the driving shift by using the driver ID, press the  button. When the icon  appears, enter the driver ID and press .</p> <p>Option 2. Start the driving shift by swiping the driver card in the magnetic card reader of the payment terminal.</p>
Next the taxi meter waits for the vehicle mileage (odometer reading) to be entered.		<p>Enter the driving kilometers and press , or skip entering the driving kilometers by pressing .</p> <p>Please note: If the entry of driving kilometers has been set as mandatory, the entry cannot be skipped.</p>
The taxi meter is in Shift started mode (the roof light does not light, and the taxi meter is in "For hire" status). The kilometers driven and the time are registered as commuting.		Press the TAXI button to switch the taxi meter to " For hire " mode.
The taxi meter is in "For hire" mode and the roof light are on.		

2.1.4 Ending the driving shift


The mileage of the vehicle is recorded at the end of the shift. The taxi meter prompts you to enter the mileage.

Taximeter status	Taximeter display	Function
The taxi meter must be in Free (For hire) status.		Press button  to switch to the next page of the taximeter's function menu. You may have to press more than once to open the page with red flag icon  . Press  twice to stop the shift
Next the taxi meter waits for the vehicle mileage (odometer reading) to be entered.		Enter the driving kilometers and press  , or skip entering the driving kilometers by pressing  . Please note: If the entry of driving kilometers has been set as mandatory, the entry cannot be skipped.
The shift report is printed, and the taxi meter returns to OFF mode.		

2.2 Payments

2.2.1 Tariff activation

To activate a tariff present on the taxi meter, you can use the button **T1** which shows the list of available fees. Alternatively, the tariff can be activated from the tariff menu **T** which shows more options for selecting fees.


In the tariff menu you can activate several prices, waiting time and contract driving. Fixed price for the taxi run can also be set from button .

2.2.2 Payment transactions

Taxi rides can be paid for by cash or debit/credit cards. Contract billing and virtual payment instruments are also possible, if the system has been configured to accept these payment methods.

Press the checkout button  to activate payment mode.

2.2.2.1 Cash payments

When the taxi meter is in payment mode, collect the fee from the customer and print a receipt from the  button.

2.2.2.2 Card payments



Taximeter status	Taximeter status	Function
<p>When the checkout icon  has been pressed, the taxi meter switches to payment mode.</p> <p>The amount to be charged is automatically transferred to the payment terminal.</p>	 	<p>Charge the payment as a contactless payment</p>  <p>or as a chip card payment</p>  <p>or as magnetic stripe card payment</p> 
<p>Taxi meter prints the driver's receipt automatically when the payment has been accepted.</p> <p>Press receipt button to print the customer's receipt.</p>		<p>Print the customer's receipt by pressing  or skip printing from the .</p>

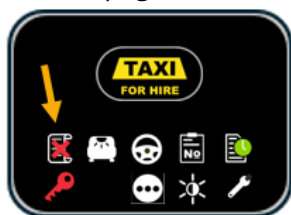
2.2.3 Payment transaction refund/correction




The payment correction function can be used to correct possible invoices or other errors in ride payment transactions. The payment adjustment function returns the payment and/or payments of the last completed or alternatively incomplete transport for reprocessing per receipt.

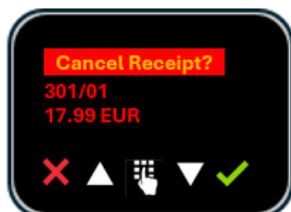
Please note! If payment correction is necessary, it must be done in Free mode before the next ride is activated. Halda M2 Taxi Meter complies with the valid national accounting regulations in enabling payment correction.







To correct payment, make sure the taxi meter is in **Free (For hire)** mode.

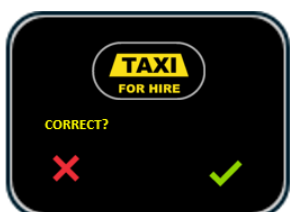
1. Browse pages with  button until you locate the cancellation button .





2. Press the cancellation button  to activate the payment correction.
3. Use the arrow buttons  and  to scroll through the payments that can be corrected.






4. A correctable payment transaction can also be requested using the **receipt number**. Open the numeric keypad with the button  and enter the receipt number.
5. You can cancel the payment adjustment by pressing the exit button .
6. With the correct receipt selected, confirm the payment refund with the button .
7. The taxi meter prints the breakdown of the correction and waits for confirmation  again.
 - a. You can cancel the function with the button .
8. The taxi meter is waiting for receipts to be printed.
 - a. Print the customer's receipt with the button .
9. The taxi meter requests confirmation for processing the correction of the payment transaction.




- a. Confirm the correction of the payment transaction with the button .
 - b. You can reject the correction of the payment transaction with the button .
10. The payment transaction returns to the Cashier mode to be processed again.
 11. Charge the customer(s).

2.2.4 Taxi Free light control

The "free" light of the taxi is controlled automatically by the Halda M2 Mini Taxi meter so that the light of the "taxi sign" is always turned off in Occupied mode and automatically turned on when the taxi meter switches to Vacant mode. The driver can also control the operation of the roof light, if necessary, by manually controlling the buttons  and .

The symbol  shows the free light of the taxi is on/active and at the same time the booking dispatch system connected to the taxi meter is controlled as being Vacant.

The symbol  shows that the taxi's free light is off/inactive, and the Booking dispatch system connected to the taxi meter is in "No Rides" mode.





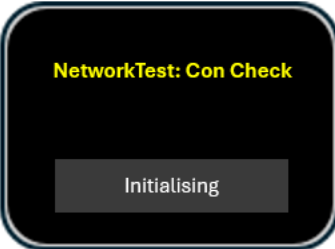
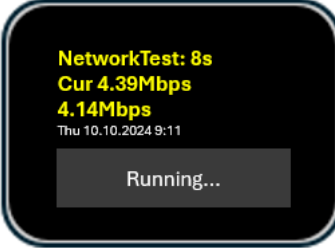
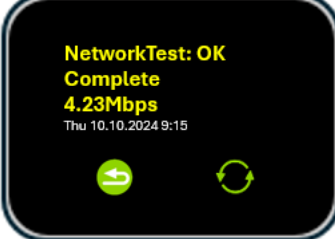

You can activate the taxi's vacant light by pressing the icon .

Please note! The function does not change the booking status of the taxi meter.

3. Data connection speed test

The speed and functionality of the data interface can be tested in M2 Mini taxi meters.

Please note! The measured speed must not fall below 1 Mbit per second.

Taximeter status	Taximeter display	Function
Connection speed test can be started when the taximeter is in vacant mode.		Scroll through the pages of the taximeter with the browse icon  until you see the data connection test icon 
Press connection test icon  to start the test.		The test starts and runs automatically.
The test is running		
The test result appears on screen after the test has been completed.		Press  to return to the previous page. Test can be repeated by pressing the  button

4. Declaration of EU Conformity

This declaration certifies that the below mentioned system conforms to the essential requirements of the **2014/32/EU** and **2014/30/EU**.

Description of the system:	Taximeter system
Type:	Halda/Halda M2 (Mini)
Components:	TM208 CPU TT240 Display (small) RX90hn Printer
Manufacturer:	Semel Oy Valimotie 21 FIN-00380 HELSINKI

The construction of the appliances is in accordance with the following standards:

EMC:

ISO 7637-2
ISO 7637-3
IEC 61000-4-2
IEC 61000-4-3
IEC 61000-4-6
EN 55022 Class B

Mechanical test:

IEC 60068-2-64
IEC 60068-2-31

Climate test:

IEC 60068-2-2
IEC 60068-2-1
IEC 60068-2-30

The system has been tested according to these standards by RISE Research Institutes of Sweden AB. All requirements are fulfilled.

EC type examination certificate:	No. 0402-MID-50 23 05
Assessment decision certificate:	No. 0402-MID-50 23 01

The authorized signature to this declaration, on behalf of the manufacturer, and the responsible person based within the EU, is identified below.

Signature:

Helsinki June 25, 2024



Börje Nummelin
Managing Director
Semel Oy

5. Technical information

TM208E Central Power Unit	
Construction TM208	Aluminum profile
Dimensions TM208	39 mm x 108,5 mm x 124 mm (T x L x W)
Weight TM208	350 g
Voltage TM208	9...32 VDC
Power consumption TM208	70 mA at 12 V
Operating temperature	-25 ... +55 °C
Storage temperature	-40 ... +70 °C
Pulse input frequency range	500 ... 150000 imp/km

TT240 Mini Display	
Construction	Glass front, plastic back
Dimensions	13,65 mm x 71,4 mm x 52.23 mm (T x L x W)
Weight	152 g
Operating temperature	-25 ... +55 °C
Storage temperature	-30 ... +70 °C

6. Support services

Halda AB - Kundsupport

Halda AB provides support on weekdays for technical problems

+46 8 - 50 13 14 00

+47 21 56 98 07

+45 36 39 63 99

support@halda.com

