



MCT-07



The future in taxi.

Owner manual

Version ITM40



Approved according to EU Directive 2014/32/EU.



The HALE quality management system complies with the requirements of standards EN ISO 9001:2015 and IATF 16949:2016.

Owner manual

Taximeter MCT-07 / ITM40

Version 1.0 / 11.03.2022

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1. Introduction








1.1. Symbols

-  This information draws your attention to dangers or possible incorrect operation.
-  This tip provides you with advice or further information.
-  Press the corresponding button.
-  This symbol means that you should do something.
-  See page x [ page x]

1.2. Manual Input of Digits

-  Increases the value of the flashing digit.
-  To the next digit.
-  Confirmation of the entered value and return to the previous screen.
-  Confirmation of the entered value and switch to the next screen.

1.3. Operating Modes

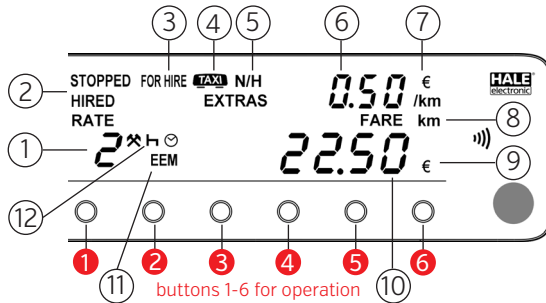
Normal Operation	For single proprietors: no shift operation, automatic shift log-on possible.
Operation with Driver Log-on	For multi cab owners: the driver starts the shift by entering the driver number, confirming it with key  button and pressing keys  +  .
NFC Operation	For taxi fleets: Each driver starts his shift by holding the driver's card in front of the NFC reader and pressing keys  +  . The shift is ended by pressing keys  +  and holding the driver's card in front of the NFC reader (the data of the ended shift is copied onto the card and can be evaluated in the HALE data center).
With or without data storage	

1.4. Power Consumption

OFF Mode	approx. 315 μ A
Sleep Mode	approx. 90 mA
Typical	approx. 300 mA
Maximum	1.3 A

2. Display and Operation

2.1. Display and Buttons of the Taximeter



1	Alphanumeric tariff display [2 digits]	7	€/km [not necessary for taximeter function]
2	Status display HIRED and STOPPED	8	Appears while reading totalizers
3	Status display FOR HIRE	9	Currency display
4	Status display for roof sign*	10	Fare display [7 digits]**
5	Display night and holiday tariff	11	Extended extras selection mode
6	Extra display [5 digits]	12	Display for working time, pauses, waiting time

* Taxi sign blinks on roof sign error.

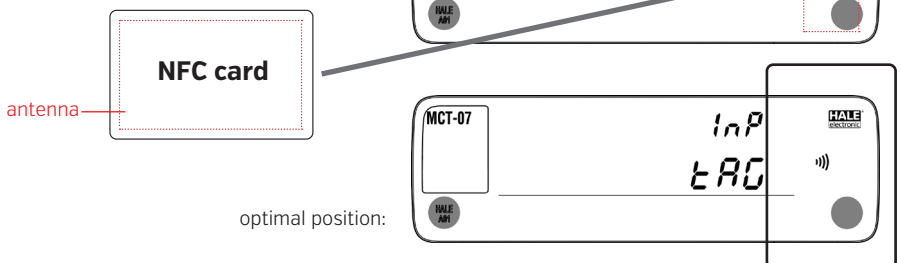
** Distance display is not necessary for the taximeter function.

7-segment alphabet (alphanumeric display)

A	A	B	b	C	C	D	d	E	E	F	F
G	G	H	H	I	I	J	J	K	K	L	L
M	M	N	N	O	O	P	P	Q	Q	R	R
S	S	T	T	U	U	V	V	W	W	X	X
Y	Y	Z	Z	0	0	1	1	2	2	3	3
4	4	5	5	6	6	7	7	8	8	9	9

2.2. NFC Reader

For the efficient use of the NFC card it is important to always hold it in front of the NFC reader in such a way that the antennas overlap as much as possible.



3. OC Mode Normal Operation

Almost all taximeter functions which are described in these operating instructions can only be called up from the Owner Control Mode (OC MODE). Access to OC MODE is normally only possible with the owner code or the owner card. This means that all taximeter functions which should only be accessible to the owner, are protected.

3.1. How to access OC Mode

- If a shift is logged on, log the shift off with the buttons ② and ③.

The taximeter is now in signed-off mode (mode between shifts).

- Press the buttons ② and ④ to access owner code entry mode

(If the input of an owner code is not activated, the taximeter switches immediately to OC mode.)



Enter the owner code (standard setting of the manufacturer: 0000005):

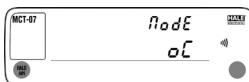
- Use button ① to increase the value of the flashing digit.
- Use button ② to move to the next digit.
- Or increase the very left digit with key ⑥ directly.
- Confirm the code with button ④.

If the code that has been entered is correct, the taximeter switches to OC mode. If the code that has been entered is incorrect, **Err oCodE** appears in the display.



! If you enter an incorrect code 5 times, code entry is blocked and is only possible again after the block-in period (default: 24 hours, see F0.0007).

The taximeter is now in OC mode.



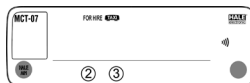
Owner control mode

4. OC Mode Owner Card

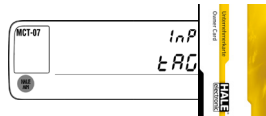
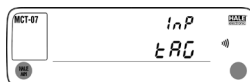
4.1. How to access OC Mode with the Owner Card

Logging off the shift

- In FOR HIRE press the buttons ② and ③ and store the shift data on the driver's card (► BAF MCT-07).

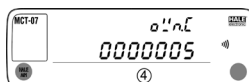
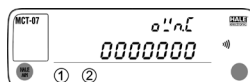


- Then hold the owner card in front of the NFC reader on the front side of the taximeter.

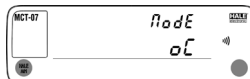


The card is checked. If an incorrect owner card is used **Err o.No** appears.

- Enter the owner code (► page 6).



The taximeter is now in OC mode.

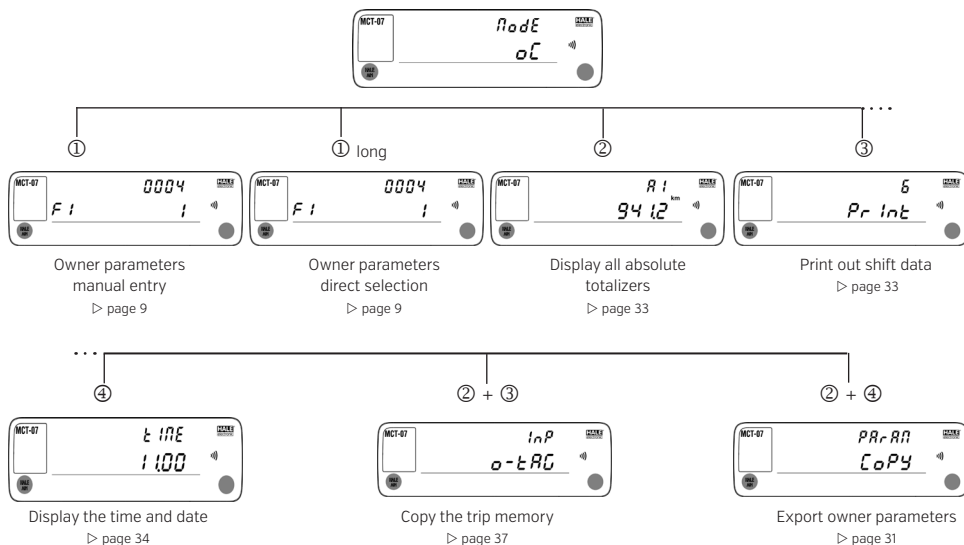


Owner control
mode

Overview of OC Mode

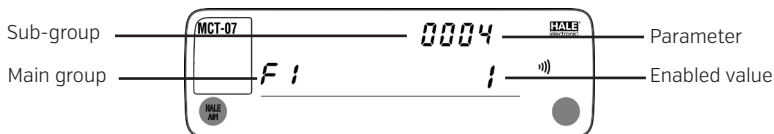
4.2. Overview of OC Mode

The following overview shows the activities that you can perform in OC mode:



The owner parameters are structured as follows:

Fx – main group **x** – sub-group **xxx** – parameter
e.g.: F1.0004

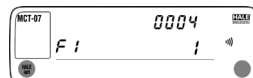


Switching between the “menu levels”:

- ▶ In order to select the sub-group, press the buttons ④ and ③.
- ▶ In order to select the main group, press the buttons ④ and ③ again.

You can jump between the parameters with:

- ▶ Button ④ to the next parameter
- ▶ Button ③ to the previous parameter

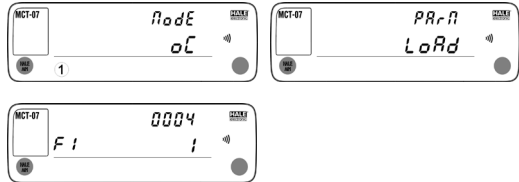


4.3. Setting the Parameters

- ▶ In OC mode, press button ①.

The parameters are loaded.

The last parameter that was changed is displayed.



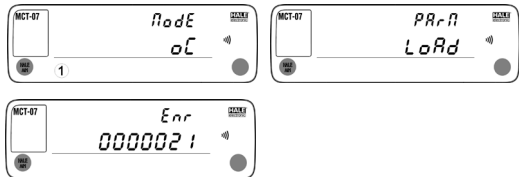
- ▶ Use button ① to increase the value of the flashing digit.
- ▶ Use button ② to move to the next digit.
- ▶ With button ③ you return to the previous parameter.
- ▶ With button ④ you confirm the value that has been entered and switch to the next parameter.
- ▶ With button ⑤ you decrease the displayed parameter setting by 1.
- ▶ With button ⑥ you increase the displayed parameter setting by 1.

4.4. Parameter Direct Selection

- ▶ In OC mode, press button ① until **PARn LoAd** appears in the display in order to directly select the desired parameter.

Now the last parameter that was changed and stored is displayed. You can now enter any parameter you like and thereby select it directly.

- ▶ Changing the menu level - ▷ page 8.



4.5. Parameter Storage

- ▶ All parameters confirmed with button ④ or ③ are earmarked for storage.
- ▶ Save the owner parameters with the buttons ④ and ②.

The new checksum will be calculated and displayed.



4.6. How to exit OC Mode / Seat Sensor Test

Seat Sensor Test

- ▶ Press the buttons ④ and ③.
[oN... Seat occupied / oFF ... Seat free]
The buzzer is heard while SEAt on is displayed.

If no seat sensor is connected, the seat sensor test always displays the word OFF.



Signed-off Mode

- ▶ Press button ④.



If no button is pressed for 20 seconds in the parameter menu, the taximeter automatically switches to signed-off mode. Values which have been confirmed with ④ or ③, but not yet saved with ④+②, are lost again as a result.

5. Owner parameter

An overview of all owner parameters which can be adjusted in OC mode can be found below. Upon delivery of the taximeter, the owner parameters are set to the standard (default) values.

Owner Parameters – Main Groups	Description
F0 Owner data	Owner-specific taximeter settings
F1 Printer data	Settings for receipts and shift reports
F2 Display function	Settings for the display functions and totalizers
F3 Other functions	Settings for the seat sensors, OFF mode, trip memory, all-inclusive price, function released for driver, taximeter outputs
F4 Pause function	Settings for pauses

Overview of the Adjustable Owner Parameters

Parameter No.	Owner Parameters	OCS value	Default Value	Page
F0 Owner data				
F0.0003	Vehicle number	no	1	page 14
F0.0004	Licence number	no	1	page 14
F0.0006	Owner code	no	5	page 14
F0.0007	Blocking period after incorrect input	no	1440	page 14
F0.0020	Driver prefix	yes		page 14
F0.0021	Vehicle prefix	yes		page 14
F0.0200	Value-added tax parameter 1	yes	7	page 14
F0.0201	Value-added tax parameter 2	yes	19	page 14
F0.0202	VAT Switch-over distance	yes	50000	page 14
F1 Printer data				
Receipt configuration				
F1.0001	Automatic receipt	yes	0	page 15
F1.0002	Number of automatic receipts	yes	2	page 15
F1.0003	Receipt number reset	yes	2	page 15
F1.0004	Receipt layout	yes	1	page 15
F1.0102	Rounded balance amount	yes	0	page 15
F1.0103	Details of the VAT rate	yes	2	page 15
F1.0104	VAT and net amount	yes	0	page 15
F1.0105	Line for the manual entry of a tip	yes	0	page 15
F1.0107	Licence number	yes	0	page 15
F1.0108	Vehicle number	yes	0	page 16
F1.0109	Vehicle prefix	yes	1	page 16
F1.0110	Driver number	yes	0	page 16
F1.0111	Driver prefix	yes	1	page 16
F1.0112	Driver's name, if available	yes	1	page 16
F1.0113	Departure point and destination	yes	0	page 16
F1.0116	Maximum speed	yes	0	page 16
F1.0118	Calibration check sum of the active tariff	yes	0	page 16

Parameter No.	Owner Parameters	OCS value	Default Value	Page
F1.0119	Constant k [W]	yes	0	page 16
F1.0120	Extras details	yes	0	page 16
F1.0121	Licence plate number	yes	0	page 16
F1.0122	Driver ID	yes	0	page 16
F1.0123	Date and time	yes	0	page 16
F1.0200	Small invoice limiting amount	yes	150	page 16
F1.0202	Departure destination fallback type	yes	0	page 16
Shift report configuration				
F1.0300	Shift report at the end of the shift	yes	2	page 20
F1.0400	Shift number	yes	1	page 20
F1.0401	Trip memory information	yes	1	page 20
F1.0402	Hired utilization	yes	1	page 20
F1.0403	Revenues per kilometer driven	yes	1	page 20
F1.0404	Licence number	yes	0	page 20
F1.0405	Totalizers with the value 0	yes	0	page 20
F1.0406	Pause information	yes	0	page 20
F1.0410	Device serial number	yes	0	page 20
F1.0412	Driver ID	yes	0	page 20
F1.0425	Date and time	yes	0	page 20
F1.0426	Shift odometer values	yes	0	page 20
F1.0500	Print Shift Totalizers	yes	1	page 23
F1.0501	Total kilometers [km]	yes	1	page 23
F1.0502	Hired kilometers [km]	yes	1	page 23
F1.0503	Number of trips [number]	yes	1	page 23
F1.0504	Total extras [€]	yes	1	page 23
F1.0505	Total fares without extras [€]	yes	1	page 23
F1.0506	Total fares including extras [€]	yes	1	page 23
F1.0507	Number of selected extras [number]	yes	1	page 23
F1.0508	Number of increments [number]	yes	1	page 23
F1.0509	Incremental amounts [€]	yes	1	page 23
F1.0510	Flag drop revenues [€]	yes	1	page 23
F1.0511	Waiting time increments [€]	yes	1	page 23
F1.0512	Seat sensor in use [km]	yes	1	page 23
F1.0513	Special trips [km]	yes	1	page 23
F1.0514	km in stopped [km]	yes	1	page 23
F1.0600	Print Absolute Totalizers	yes	2	page 23
F1.0601	Total kilometers [km]	yes	1	page 23
F1.0602	Hired kilometers [km]	yes	1	page 23
F1.0603	Number of trips [number]	yes	1	page 23
F1.0604	Total extras [€]	yes	1	page 23
F1.0605	Total fares without extras [€]	yes	1	page 23
F1.0606	Total fares including extras [€]	yes	1	page 23
F1.0607	Number of selected extras [number]	yes	1	page 23
F1.0608	Number of increments [number]	yes	1	page 23
F1.0609	Incremental amounts [€]	yes	1	page 23

Owner Parameter

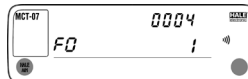
Parameter No.	Owner Parameters	OCS value	Default Value	Page
F1.0610	Flag drop revenues [€]	yes	1	page 23
F1.0611	Waiting time increments [€]	yes	1	page 23
F1.0612	Seat sensor in use [km]	yes	1	page 23
F1.0613	Special trips [km]	yes	1	page 23
F1.0614	km in stopped [km]	yes	1	page 23
F2 Display function				
F2.0001	Price for all-inclusive trip (only adjustable if all-inclusive trips are enabled in F3.0502)	yes	1	page 24
F2.0002	Pre-set all-inclusive price	yes	20	page 24
F2.0200	Display Shift Totalizers	yes	3	page 24
F2.0201	Total kilometers [km]	yes	1	page 24
F2.0202	Hired kilometers [km]	yes	1	page 24
F2.0203	Number of trips [number]	yes	1	page 24
F2.0204	Total extras [€]	yes	1	page 24
F2.0205	Total fares without extras [€]	yes	1	page 24
F2.0206	Total fares including extras [€]	yes	1	page 24
F2.0207	Number of selected extras [number]	yes	0	page 24
F2.0208	Number of increments [number]	yes	0	page 24
F2.0209	Incremental amounts [€]	yes	0	page 24
F2.0210	Flag drop revenues [€]	yes	0	page 24
F2.0211	Waiting time increments [€]	yes	0	page 24
F2.0212	Seat sensor in use [km]	yes	0	page 24
F2.0213	Special trips [km]	yes	0	page 24
F2.0214	km in stopped [km]	yes	0	page 24
F2.0300	Display Absolute Totalizers	yes	2	page 25
F2.0301	Total kilometers [km]	yes	1	page 25
F2.0302	Hired kilometers [km]	yes	1	page 25
F2.0303	Number of trips [number]	yes	1	page 25
F2.0304	Total extras [€]	yes	1	page 25
F2.0305	Total fares without extras [€]	yes	1	page 25
F2.0306	Total fares including extras [€]	yes	1	page 25
F2.0307	Number of selected extras [number]	yes	0	page 25
F2.0308	Number of increments [number]	yes	0	page 25
F2.0309	Incremental amounts [€]	yes	0	page 25
F2.0310	Flag drop revenues [€]	yes	0	page 25
F2.0311	Waiting time increments [€]	yes	0	page 25
F2.0312	Seat sensor in use [km]	yes	0	page 25
F2.0313	Special trips [km]	yes	0	page 25
F2.0314	km in stopped [km]	yes	0	page 25
F2.0400	Additional menu for odometer values	yes	0	page 25
F2.0401	Shift odometer values	yes	3	page 25
F3 Other functions				
F3.0001	Seat sensor function	yes	2	page 26
F3.0002	Seat sensor function according to distance	yes	30	page 26

Owner Parameter

Parameter No.	Owner Parameters	OCS value	Default Value	Page
F3.0003	Seat sensor function in sleep mode	yes	1	page 26
F3.0004	Seat sensor switch-off delay	yes	60	page 26
F3.0100	Empty trip separation [per meters]	yes	100	page 26
F3.0101	Empty trip separation	yes	1	page 26
F3.0102	Empty trip separation [per seconds]	yes	150	page 26
F3.0200	Operating mode NFC	yes	2	page 26
F3.0202	Automatic shift start	yes	0	page 27
F3.0203	Automatic shift start delay [seconds]	yes	20	page 27
F3.0204	Use last driver number for automatic shift	yes	0	page 27
F3.0205	Driver number for automatic shift	yes	1	page 27
F3.0206	Automatic OFF mode	yes	1	page 27
F3.0207	Automatic OFF mode [in minutes]	yes	256	page 27
F3.0209	Automatic sleep mode of the taximeter	yes	0	page 27
F3.0210	Automatic sleep mode of the taximeter [in minutes]	yes	10	page 27
F3.0211	Copy shift data	yes	1	page 27
F3.0212	Copy the trip memory [in days]	yes	42	page 27
F3.0401	V-info error	yes	1	page 28
F3.0500	Extras correction	yes	0	page 28
F3.0501	VAT selection	yes	3	page 28
F3.0502	All-inclusive trip	yes	0	page 28
F3.0503	Input time all-inclusive trip [in seconds]	yes	20	page 28
F3.0505	Switch-off the taximeter manually	yes	1	page 28
F3.0506	Roof sign	yes	1	page 28
F3.0507	Trip marking in signed-off mode	yes	0	page 28
F3.0508	Input of customer numbers	yes	0	page 28
F3.0509	Reading light	yes	1	page 28
F3.0600	Roof sign status	yes	2	page 28
F3.0700	Volt level at taximeter status output	yes	1	page 28
F3.0701	Taximeter status output in STOPPED	yes	0	page 28
F4 Pause function				
F4.0001	Active pauses	yes	0	page 29
F4.0002	Minimum pause time	yes	15	page 29
F4.0003	Taximeter status in active pause	yes	1	page 29
F4.0004	Roof sign in active pause	yes	0	page 29
F4.0005	Speed	yes	0	page 29
F4.0006	Speed limit	yes	1	page 29
F4.0007	Passive pauses	yes	0	page 29
F4.0008	Exceeding passive pause time	yes	15	page 29
F4.0009	Taximeter status in passive pause	yes	1	page 29
F4.0010	Roof sign in passive pause	yes	0	page 29
F6 Taximeter Service Settings				
F6.0001	Interface where the taximeter service is provided	yes	2	page 30
F6.0100	Alive enabled	yes	0	page 30
F6.0101	Alive timeout	yes	15	page 30

5.1. Owner Data

As every taxi company has different requirements for a taximeter, the taximeter can be adapted in many areas by the owner to the owner's requirements. The adjustable owner parameters make this adaptation possible. All owner-specific settings are grouped together under the main group F0.



Overview of the adjustable owner data

Parameter	Designation	Value	Description	Default Setting
F0.0003	Vehicle number	1-65534	Identification number of a vehicle in your taxi fleet*/**	1
F0.0004	Licence number	1-65534	Licence number of the owner Note: The licence number can also be printed on the receipt and shift account.**	1
F0.0006	Owner code	0-9999	Code protects access to OC mode [0 = no protection]	5
F0.0007	Blocking period after incorrect input	1-65534	Time in minutes until the code can be re-entered Note: If you enter an incorrect code 5 times, code entry is blocked and is only possible again after the blocking period that has been set.	1440
F0.0020	Driver prefix	3 alphan. char.	Allows the owner to create more than one driver group in addition to the driver number (mainly for large fleets with accounting software)	
F0.0021	Vehicle prefix	3 alphan. char.	Allows the owner to create more than one driver group in addition to the vehicle number (mainly for large fleets with accounting software)	

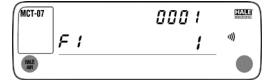
* Necessary for NFC operation;

** Note: Log the shift on and off before the number is taken over!

Parameter	Designation	Value	Description	Default Setting
F0.0200	Value-added tax parameter 1	0-100	VAT rate 1 [in %]	7
F0.0201	Value-added tax parameter 2	0-100	VAT rate 2 [in %]	19
F0.0202	VAT switch-over distance	0-99999	Specifies the distance in m, after which a switch-over is carried out from VAT rate 1 to VAT rate 2. A value of 0 indicates that no switch-over is carried out. In this case, only VAT rate 1 applies.	50000

5.2. Printer Data

The following parameters offer you the option of changing the appearance of your receipts and shift reports. Some of the settings may also be influenced by the active tariff. All settings for printer data are grouped together under the main group F1.



Receipt configuration

Parameter	Designation	Value	Description	Default Setting
F1.0001	Automatic receipt	0 1	Receipt is not printed automatically Receipt is printed automatically	0
F1.0002	Number of automatic receipts	1-2	How many receipts should be printed automatically? (only valid when automatic receipt is activated)	2
F1.0003	Receipt document number reset	1 2	Receipt document number increases for ever Receipt document number is reset yearly at the first shift end after the turn of the year	2
F1.0004	Receipt layout	1 2 3	Standard receipt with fare and extras (receipt layout 1) Simple list of the tariff levels used (receipt layout 2) Tariff level details, according to distance and time (receipt layout 3)	1
F1.0102	Rounded balance amount	0 1	The rounded balance amount is not printed. If the balance exceeds 0, the rounded balance amount is printed. This information is included in the subtotal if this is printed. Only with receipt layout 2 and 3.	0
F1.0103	Details of the VAT rate	1 2 3	VAT information line is always printed. Receipt without VAT information line if the VAT rate is 0% (otherwise only "incl. xx.x VAT" is printed) Receipt always without stating the VAT rate, only "incl. VAT" is printed.	2
F1.0104	VAT and net amount	0 1	Disables the statement of the VAT and net amount on the receipt, unless the amount limit for small invoices is exceeded. Enables the statement of the VAT and net amount on the receipt. In this case, the values 1 or 2 have to be entered under F1.0103.	0
F1.0105	Line for the manual entry of a tip	0 1	Print receipt without line for tip Print receipt with line for tip	0
F1.0107	Licence number	0 1	Receipt without licence number Receipt with licence number	0

Printer Data

Parameter	Designation	Value	Description	Default Setting
F1.0108	Vehicle number	0 1	Receipt without vehicle number If the value 0 is entered, F1.0109 (vehicle prefix) is automatically disabled. Receipt with vehicle number	0
F1.0109	Vehicle prefix	0 1	Receipt without vehicle prefix Receipt with vehicle prefix, provided that vehicle number is printed.	1
F1.0110	Driver number	0 1	Receipt without driver number If the value 0 is entered, F1.0111 and F1.0112 (driver prefix and driver's name) is automatically disabled. Receipt with driver number	0
F1.0111	Driver prefix	0 1	Receipt without driver prefix Receipt with driver prefix, provided that driver number is printed.	1
F1.0112	Driver's name, if available	0 1	Receipt without driver's name Receipt with driver's name, if available	1
F1.0113	Departure point and destination	0 1	Print receipt without lines for departure point and destination Print receipt with lines for departure point and destination	0
F1.0116	Maximum speed	0 1	Receipt without maximum speed Receipt with maximum speed	0
F1.0118	Calibration check sum of the active tariff	0 1	Receipt without calibration check sum Receipt with calibration check sum	0
F1.0119	Constant [k]	0 1	Receipt without constant [k] Receipt with constant [k]	0
F1.0120	Extras details	0 1	Individually selected extras are not printed, only the sum total is printed. Individually selected extras are printed.	0
F1.0121	Licence plate number	0 1	Receipt without car's licence plate number. Receipt with car's licence plate number.	0
F1.0122	Driver ID	0 1	Receipt without extended driver ID. Receipt with extended driver ID. The extended driver ID has to be retrieved from HALE datacenter and is only available with an according account there.	0
F1.0123	Date and time	0 1	Receipt without timestamp. Receipt with timestamp.	0
F1.0200	Small invoice limiting amount	0-9999999	Small invoice function: Gross amount in € [total fare] from which the following additional lines are printed on a receipt: - Consecutive receipt number - Invoice recipient with two blank lines - VAT and net amount line	150
F1.0202	Departure destination fallback type	0 1	„No GPS DATA“ is printed, if no GPS data is available. Empty lines are printed, if no GPS data is available.	0

How you can modify the appearance of your taxi receipt:

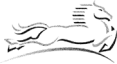
Here you can see taxi receipts which contain all possible information.

The details which are to be printed out can be set in the parameters listed to the right of the receipts.



Your HALE workshop will be pleased to program the receipt header (including graphic) and footer that you would like to have in your printer.


Example Receipt Layout 1

RECEIPT No. 1		
		Receipt header
Transport & Co.		
13:31 - 13:42	17. 2. 2015	F1.0112
Mustermann Max		
K	p/km 24000	F1.0119
MAX. SPEED	km/h 102	F1.0116
ATCS	B87B 36E8	F1.0118
LICENCE No.	10101	F1.0107
DRIVER No.	DRI 1	F1.0110/F1.0111
CAR No.	VEH 65534	F1.0108/F1.0109
DISTANCE km	3.0	
FROM:		
TO:		F1.0113
TARIFFS	1,2	
FLAG DROP	€ 3,50	
FARE	€ 5,90	
EXTRAS:		
AIRPORT	€ 2,40	F1.0120
1 x 2,40		
TOTAL	€ 11,80	
incl. VAT		
TIP	€.....	F1.0105
Thank you for using our service!		Footer

Overview of the adjustable Printer Data for Shift Reports ▸ page 20.


Example Receipt Layout 2

With the flag drop as well as the distance price, time tariff + fare for the tariff levels used

RECEIPT No. 2				
				Receipt header
Transport & Co.				
13:31 - 13:42		17. 2. 2015		
K	p/km	24000		F1.0119
MAX. SPEED	km/h	102		F1.0116
ATCS	B87B	36E8		F1.0118
LICENCE No.	10101			F1.0107
DRIVER No.	DRI 1			F1.0110/F1.0111/ F1.0112
A.N. Other				
CAR No.	VEH 65534			F1.0108/F1.0109
>>DISTANCE km		3.0		
FROM:				F1.0113
TO:.....				
FLAG DROP	€	3,50		
TS	€/km	€/min		F1.0004 / 2
2	0.00	0,43	0,00	
FARE	€	9,10		
EXTRAS:				
AIRPORT	€	2,40		F1.0120
1 x	2,40			
TOTAL		€	11,50	
incl. VAT				F1.0103
TIP	€		F1.0105
Thank you for using our service!				Footer


Example Receipt Layout 3

With the flag drop as well as the distance price, time tariff + fare for the tariff levels used - also with details of the distance and time calculation

RECEIPT No. 3				
				Receipt header
Transport & Co.				
13:31 - 13:42		17. 2. 2015		
K	p/km	24000		F1.0119
MAX. SPEED	km/h	102		F1.0116
ATCS	B87B	36E8		F1.0118
LICENCE No.	10101			F1.0107
DRIVER Nr.	DRI 1			F1.0110/F1.0111/ F1.0112
A.N. Other				
CAR No.	VEH 65534			F1.0108/F1.0109
>>DISTANCE km		3.0		
FROM:				F1.0113
TO:.....				
FLAG DROP	€	3,50		
TS	€/km	€/min		F1.0004 / 3
1	2.9	1,80	5,23	
TS Min:Sek	€/min			
1	0:23	0,43	€ 0,17	
FARE	€	5,90		
TOTAL		€	8,30	
incl. VAT				F1.0103
TIP	€		F1.0105
Thank you for using our service!				Footer

Example All-inclusive Trip

RECEIPT No. 4



Transport & Co.

13:31 - 13:42 17. 2. 2015

K

MAX. SPEED

ATCS

LICENCE No.

DRIVER No.

Franz Müller

CAR No.

DISTANCE km

FROM:

TO:.....

ALL-INCLUSIVE PRICE €

TOTAL

FREE PRICE AGREEMENT

TIP

INVOICE RECIPIENT:

.....

.....

Thank you for using our service!

p/km

km/h

B87B 36E8

10101

DRI 1

VEH 65534

3.0

€.....

F1.0119

F1.0116

F1.0118

F1.0107

F1.0110/F1.0111/F1.0112

F1.0108/F1.0109

F1.0113

F1.0105

F1.0200


Footer

Printer Data

Shift report configuration

Parameter	Designation	Value	Description	Default Setting
F1.0300	Shift report at the end of the shift	1 2 3	After the end of the shift, a shift report is always printed automatically No automatic shift report is printed. After the end of the shift, a shift report is only printed in normal operation mode (without NFC card). In NFC card mode, the shift report can be printed for up to 255 seconds after the end of the shift by printing button ③.	2
F1.0400	Shift number	0 1	Shift number is not printed Shift number is printed	1
F1.0401	Trip memory information	0 1	Trip memory information is not printed Trip memory information is printed	1
F1.0402	Hired utilization	0 1	Ratio of the distance HIRED to the total distance of the shift is not printed Ratio of the distance HIRED to the total distance of the shift is printed	1
F1.0403	Revenues per kilometer driven	0 1	Revenues per kilometer driven are not printed Revenues per kilometer driven are printed	1
F1.0404	Licence number	0 1	Licence number is not printed Licence number is printed	0
F1.0405	Totalizers with the value 0	0 1	Totalizers which have the value 0 are not printed Totalizers which have the value 0 are printed	0
F1.0406	Pause information	0 1	Shift report in the case of disabled pause function without shift working time line Shift report also in the case of disabled pause function with shift working time line	0
F1.0410	Device serial number	0 1	Device serial number is not printed. Device serial number is printed.	0
F1.0412	Driver ID	0 1	Shift report without extended driver ID. Shift report with extended driver ID. The extended driver ID has to be retrieved from HALE datacenter and is only available with an according account there.	0
F1.0425	Date and time	0 1	Shift report without timestamp. Shift report with timestamp.	0
F1.0426	Shift odometer values	0 1 2 3	Shift report without shift odometer values. Shift report with shift start odometer values. Shift report with shift end odometer values. Shift report with shift start and end odometer values. Only available when F2.0400 and F2.0401 are set accordingly.	0

Layout of the Shift Report

Header [stored in the printer]	SHIFT REPORT No. 37		F1.0400
			
With NFC system Via driver's card	Transport & Co.		
	18:51	20. 02. 2015	
	LICENCE No.	10101	F1.0404 + F0.0004
	DRIVER No.	1	Prefix F0.0020
selected shift totalizers F1.0500-F1.0514	CAR No.	65534	F0.0003 + F0.0021
	DEVICE SERIAL No.	000001	F1.0410
	SHIFT TOTALIZERS		
	1. TOTAL	km 149,8	
	2. HIRED	km 121,7	
	3. TRIPS	6	
	4. EXTRAS	€ 0,00	
	5. FARES	€ 74,10	
	6. TOTAL REVENUES	€ 74,10	
	7. NO. EXTRAS	0	
	8. INCREMENTS	178	
	9. INCR. AMOUNTS	€ 17,80	
	10. FLAG DROPS	€ 9,00	
	11. TIME INCR. AMOUNTS	€ 1,41	
	12. SEAT SENSOR	km 0.0	
	13. SPECIAL TRIP	km 0.0	
	14. KM IN STOPPED	km 0.0	
selected absolute totalizers F1.0600-F1.0614	HIRED UTILIZATION	70 %	F1.0402
	REVENUES PER km	€ 2,12	F1.0403
	ODOM. BEG	km 1234.5	
	ODOM. END	km 1456.7	F1.0426
	ABSOLUTE TOTALIZERS		
	1. TOTAL	km 985,2	
	2. HIRED	km 437,3	
	3. TRIPS	52	
	4. EXTRAS	€ 0,00	
	5. FARES	€ 151,70	
	6. TOTAL REVENUES	€ 151,70	
	7. NO. EXTRAS	0	
	8. INCREMENTS	235	
	9. INCR. AMOUNTS	€ 98,99	
	10. FLAG DROPS	€ 15,00	
	11. TIME INCR. AMOUNTS	€ 4,39	
	12. SEAT SENSOR	km 0.0	
	13. SPECIAL TRIP	km 0.0	
	14. KM IN STOPPED	km 0.0	



The HALE workshop will be pleased to program the header [including graphic] and footer that you would like to have in your printer.

Trip memory information:

If the parameter F1.0401 is enabled [value 1], the trip memory information is printed below the totalizers..

Distance with switched on taxi-meter resp. special trip

	BEG.	END	EMPTY	OCC.	PRICE
Date	DATE: 11.01.2018				
Trip in signed-off mode [seat sensor not occupied]	10:45	10:48	0.1	2.4	***ST
Trip in signed-off mode [seat sensor occupied]	10:51	10:53	0.1	2.4	***ST*
¹ Private trip in signed-off mode [seat sensor not occupied]	10:57	11:00	0.1	2.4	PRIV.
¹ Private trip in signed-off mode [seat sensor occupied]	11:02	11:04	0.2	2.3	PRIV.*
Shift start with driver number	BEG.:	11:05	DRIVER NO. 64		
² Special trip (empty trip, seat sensor not occupied, with trip separation)	11:05	11:08	0.1	2.4	***ST
	11:10	11:12	0.1	2.4	***ST
Normal trip: Taximeter 2,5 km in HIRED, seat sensor occupied, without approach with not occupied seat sensor	11:14	11:16	0.0	2.5	6.50*
² Special trip [seat sensor occupied with trip separation]	11:16	11:19	0.2	2.3	***ST*
Courier trip [Taximeter in HIRED, seat sensor not occupied]	11:22	11:25	0.0	5.0	13.50
All-inclusive trip [seat sensor occupied] [P]	11:29	11:35	0.0	7.5	15.00P
All-inclusive trip [seat sensor not occupied] [p]	11:36	11:39	0.0	5.0	10.00P
² Normal trip: Taximeter 2,5 km in HIRED, seat sensor occupied, with an approach of 2,0 km with not occupied seat sensor without trip separation	11:42	11:43	2.0	2.5	8.00*
³ V-Info failure on 11.01. from 11:50 to 11:50	VINFO ERROR			11:50	11.01.
Power failure on 11.01. from 11:55 to 11:57	POWER FAILURE			11:55	11.01.
				11:57	11.01.
Active pause of 6 minutes	12:05	A.PAUSE:		00:06	
Passive pause of 4 minutes	12:18	P.PAUSE:		00:04	
	12:07	12:13	0.1	3.4	***ST
Trip with extras	12:36	12:39	0.0	0.3	6,50
	Extras		2,50		
End of shift	END: 18:55				
Total time of active pauses 6 minutes	SHIFT A.PAUSE TIME:		00:06		
Total time of passive pauses 4 minutes	SHIFT P.PAUSE TIME:		00:04		
Shift working time (time from start of shift until end of shift without pause time)	SHIFT WORKING TIME:		07:40		

If a receipt has been printed for a trip, there is a „-“ sign between start time and end time of the corresponding trip on the trip memory printout.

* character at the end of the line only with occupied seat sensor

¹ Only if private and work-related trips in signed-off mode are activated [F3.0507].

² Trip separation activated in F3.0101, time for trip separation can be adjusted in parameter F3.0102.

³ Only possible with vehicles with taxi pre-equipment CiA447, can be disabled in F3.0401.

Shift Totalizers for Shift Report Printing

Parameter	Designation	Value	Description	Default Setting
F1.0500	Shift totalizers	1 2 3	Print all shift shift totalizers Do not print any shift totalizers Print selected shift totalizers	1
Selectable shift totalizers (only if F1.0500 =3)		Default setting for value 3		
F1.0501	Total kilometers (km)	0-1	Do not print [0] Print [1]	1
F1.0502	Hired kilometers (km)	0-1	Do not print [0] Print [1]	1
F1.0503	Number of trips (number)	0-1	Do not print [0] Print [1]	1
F1.0504	Total extras (€)	0-1	Do not print [0] Print [1]	1
F1.0505	Total fares without extras (€)	0-1	Do not print [0] Print [1]	1
F1.0506	Total fares including extras (€)	0-1	Do not print [0] Print [1]	1
F1.0507	Number of selected extras (number)	0-1	Do not print [0] Print [1]	1
F1.0508	Number of increments (number)	0-1	Do not print [0] Print [1]	1
F1.0509	Incremental amounts (€)	0-1	Do not print [0] Print [1]	1
F1.0510	Flag drop revenues (€)	0-1	Do not print [0] Print [1]	1
F1.0511	Waiting time increments (€)	0-1	Do not print [0] Print [1]	1
F1.0512	Seat sensor in use (km)	0-1	Do not print [0] Print [1]	1
F1.0513	Special trips (km)	0-1	Do not print [0] Print [1]	1
F1.0514	km in stopped (km)	0-1	Do not print [0] Print [1]	1

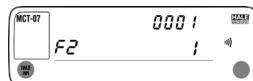
Absolute Totalizers for Shift Report Printing

Parameter	Designation	Value	Description	Default Setting
F1.0600	Absolute totalizers	1 2 3	Print all absolute totalizers Do not print any absolute totalizers Print selected absolute totalizers	2
Selectable absolute totalizers (only if F1.0600 =3)		Default setting for value 3		
F1.0601	Total kilometers (km)	0-1	Do not print [0] Print [1]	1
F1.0602	Hired kilometers (km)	0-1	Do not print [0] Print [1]	1
F1.0603	Number of trips (number)	0-1	Do not print [0] Print [1]	1
F1.0604	Total extras (€)	0-1	Do not print [0] Print [1]	1
F1.0605	Total fares without extras (€)	0-1	Do not print [0] Print [1]	1
F1.0606	Total fares including extras (€)	0-1	Do not print [0] Print [1]	1
F1.0607	Number of selected extras (number)	0-1	Do not print [0] Print [1]	1
F1.0608	Number of increments (number)	0-1	Do not print [0] Print [1]	1
F1.0609	Incremental amounts (€)	0-1	Do not print [0] Print [1]	1
F1.0610	Flag drop revenues (€)	0-1	Do not print [0] Print [1]	1
F1.0611	Waiting time increments (€)	0-1	Do not print [0] Print [1]	1
F1.0612	Seat sensor in use (km)	0-1	Do not print [0] Print [1]	1
F1.0613	Special trips (km)	0-1	Do not print [0] Print [1]	1
F1.0614	km in stopped (km)	0-1	Do not print [0] Print [1]	1

Display Functions

5.3. Display Functions

With the following parameters you can modify the information which is to be displayed on the screen of your taximeter. The individual parameters are grouped together under the main group F2.



All-Inclusive Trip (Package Trip)

The following functions are only possible if the all-inclusive trip in parameter F3.0502 has been approved.

Parameter	Designation	Value	Description	Default Setting
F2.0001	Price for all-inclusive trip [only adjustable if all-inclusive trips are enabled in F3.0502]	1 2 3	When the all-inclusive price is entered, €0.00 appears. When the all-inclusive price is entered, the last all-inclusive price entered appears. The all-inclusive price pre-set by the owner appears.	1
F2.0002	Pre-set all-inclusive price	0-9999	The owner can set an all-inclusive price in € which is used as the standard price for an all-inclusive trip.	20

Display of Shift Totalizers

In FOR HIRE mode, the only shift totalizers which are displayed are those which you have not blocked.

Parameter	Designation	Value	Description	Default Setting
F2.0200	Shift Totalizers	1 2 3	Display all shift totalizers Do not display any shift totalizer Display selected shift totalizers	3
Selectable shift totalizers [only if F2.0200 = 3]		Default setting for value 3		
F2.0201	Total kilometers [km]	0-1	Do not display [0] Display [1]	1
F2.0202	Hired kilometers [km]	0-1	Do not display [0] Display [1]	1
F2.0203	Number of trips [number]	0-1	Do not display [0] Display [1]	1
F2.0204	Total extras [€]	0-1	Do not display [0] Display [1]	1
F2.0205	Total fares without extras [€]	0-1	Do not display [0] Display [1]	1
F2.0206	Total fares including extras [€]	0-1	Do not print [0] Print [1]	1
F2.0207	Number of selected extras [number]	0-1	Do not display [0] Display [1]	0
F2.0208	Number of increments [number]	0-1	Do not display [0] Display [1]	0
F2.0209	Incremental amounts [€]	0-1	Do not display [0] Display [1]	0
F2.0210	Flag drop revenues [€]	0-1	Do not display [0] Display [1]	0
F2.0211	Waiting time increments [€]	0-1	Do not display [0] Display [1]	0
F2.0212	Seat sensor in use [km]	0-1	Do not display [0] Display [1]	0
F2.0213	Special trips [km]	0-1	Do not display [0] Display [1]	0
F2.0214	km in stopped [km]	0-1	Do not display [0] Display [1]	0

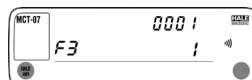
Display of Absolute Totalizers

Parameter	Designation	Value	Description	Default Setting
F2.0300	Absolute totalizers	1 2 3	Display all absolute totalizers Do not display any absolute totalizer Display selected absolute totalizers	2
Selectable absolute totalizers (only if F2.0300 = 3)			Default setting for value 3	
F2.0301	Total kilometers [km]	0-1	Do not display [0] Display [1]	1
F2.0302	Hired kilometers [km]	0-1	Do not display [0] Display [1]	1
F2.0303	Number of trips [number]	0-1	Do not display [0] Display [1]	1
F2.0304	Total extras [€]	0-1	Do not display [0] Display [1]	1
F2.0305	Total fares without extras [€]	0-1	Do not display [0] Display [1]	1
F2.0306	Total fares including extras [€]		Do not display [0] Display [1]	1
F2.0307	Number of selected extras [number]	0-1	Do not display [0] Display [1]	0
F2.0308	Number of increments [number]	0-1	Do not display [0] Display [1]	0
F2.0309	Incremental amounts [€]	0-1	Do not display [0] Display [1]	0
F2.0310	Flag drop revenues [€]	0-1	Do not display [0] Display [1]	0
F2.0311	Waiting time increments [€]	0-1	Do not display [0] Display [1]	0
F2.0312	Seat sensor in use [km]	0-1	Do not display [0] Display [1]	0
F2.0313	Special trips [km]	0-1	Do not display [0] Display [1]	0
F2.0314	km in stopped [km]	0-1	Do not display [0] Display [1]	0
F2.0400	Additional menu on shift start and end for odometer values	0 1 2 3	No additional menu on shift start and end Additional menu on shift start Additional menu on shift end Additional menu on shift start and end Additional menu: Shift odometer values F2.0401	0
F2.0401	Shift odometer values	0 1 2 3	No shift odometer values Shift start odometer values Shift end odometer values Shift start and end odometer values	3

Other Functions

5.4. Other Functions

Under the F3 main category you will find all information concerning further settings for the taximeter.



Seat sensors

Parameter	Designation	Value	Description	Default Setting
F3.0001	Seat sensor function	1 2	If the seat sensor is occupied in FOR HIRE mode, the taximeter automatically switches to HIRED. This only works if programmed in the active tariff. If the seat sensor is occupied in FOR HIRE or signed-off mode, trips are designated as special trips.	2
F3.0002	Seat sensor function according to distance	0-9999999	This parameter stipulates after which distance [meters] with closed seat sensors the forced activation or special trip registration is carried out.	30
F3.0003	Seat sensor function in sleep mode	0 1	Occupied seat sensors do not terminate sleep mode in a logged-on shift. Only with activated forced activation F3.0001 = 1: Occupied seat sensors terminate sleep mode after a few meters in the logged-on shift.	1
F3.0004	Special trip end distance	0-9999999	This parameter stipulates after which distance [meters] with a free seat sensor a special trip made previously with an occupied seat sensor is brought to an end.	60

Taxameter Functions

With the following parameters you can enable and disable certain taximeter functions.

Parameter	Designation	Value	Description	Default Setting
F3.0100	Empty and special trips start of the trip (per meters)	0-9999999	This parameter stipulates after how many meters in FOR HIRE the journey is designated as empty or special trip. Note: This trip ends as soon as it changes over to HIRED, the shift is logged off or after a specific time during which the vehicle does not move [see F3.0102].	100
F3.0101	Empty and special trips trip separation	1 0	After a specific time during which the vehicle does not move, this journey is designated separately as an empty or special trip in the trip memory. No empty trip separation	1
F3.0102	Trip separation (per seconds) empty trip and special trip	0-9999999	This parameter stipulates after how many seconds during which the vehicle does not move the trip is stored as an empty or special trip in the trip memory.	150
F3.0200	Operating mode NFC*	1 2	Select an operating mode: The taximeter works in HALE NFC operating mode. Shift log-on and log-off is only possible with the driver's card. The taximeter works in normal operating mode. The driver begins the shift by entering the driver number manually.	2

i F3.0100 only applies to special trips if in F3.0001 the value 1 is enabled.

F3.0202	Automatic shift log-on	0 1	No automatic shift log-on. The taximeter automatically starts a new shift, if no key is pressed for more than x [defined in F3.0203] seconds in SIGNED OFF mode. The driver number for shift log-on is defined in F3.0204 or F3.0205. Only available, if no driver PIN/NFC system is required for shift log-on.	0
F3.0203	Automatic shift log-on delay [seconds]	0-86400	Time in seconds that the taximeter has to be idle [no buttons pressed], before automatically logging on a new shift using the last shift's driver number. Only available, if no driver PIN/NFC system is required for shift log-on + F3.0202 set to 1.	20
F3.0204	Use last driver number for automatic shift log-on	0 1	Automatic shift log-on with driver number set in F3.0205. Automatic shift log-on with driver number used in last shift [only if F3.0202 set to 1].	0
F3.0205	Driver number for automatic shift log-on	1-65534	Driver number to be used for automatic shift log-on. Only available if F3.0202 set to 1 and F3.0204 set to 0.	1
F3.0206	Automatic OFF mode	0 1	The taximeter does not switch off automatically if the ignition is off. The taximeter switches off automatically if the ignition is off.	0
F3.0207	Automatic OFF mode [in minutes]**	0-255 256-65535	This parameter stipulates the time [in minutes] after the ignition has been switched off after which the taximeter switches to OFF mode. A value of 0 means that the taximeter switches off immediately. Note: this parameter is only valid if the value 1 is enabled under F3.0206. Automatic OFF mode disabled.	30
F3.0209	Automatic sleep mode of the taximeter	0 1	The taximeter does not switch automatically to sleep mode. The taximeter switches automatically to sleep mode if the ignition is off. Note: if the taximeter is in sleep mode, only the display is switched off. All bus functions remain active.	0
F3.0210	Automatic sleep mode of the taximeter [in minutes] [not possible if pause mode is enabled]	1-255 256-65535	This parameter stipulates the time [in minutes] with the ignition switched off after which the taximeter switches to sleep mode. A value of 0 means that the taximeter switches to sleep mode immediately. Note: This parameter is only valid if the value 1 is enabled under F3.0209. No automatic sleep mode	10
F3.0211	Copy shift data	0 1	When the shift is logged off, the shift data is not copied to the driver's card. When the shift is logged off, the shift data is copied to the driver's card.	1
F3.0212	Copy the trip memory [in days]	0-1799	Trip memory data in days (including started shifts) which is to be copied to the owner card.	42



* As long as no NFC cards have been used on the taximeter, the owner mode can be entered via keys to be able to deactivate the NFC operation, if activated by mistake.

**The taximeter takes about 15 sec. until it is ready for operation.

Other Functions

Trip Memory Settings

Parameter	Designation	Value	Description	Default Setting
F3.0401	V-Info error	0 1	No V-info errors are transferred to the trip memory. V-info errors are transferred to the trip memory.	1

Release of Taximeter Functions for the Driver

With following parameters various taximeter functions can be released or blocked for the driver.

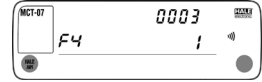
Parameter	Designation	Value	Description	Default Setting
F3.0500	Extras correction	0 1	Extras correction by the driver is not possible. The driver can undo activated extras, provided that the applicable tariff permits this.	0
F3.0501	VAT selection	1 2 3	Selection of VAT rate 1 or 2 or 0% is possible. Selection of VAT rate 1 or 2 is possible. Selection of the VAT rate is not possible.	3
F3.0502	All-Inclusive Trip	0 1	An all-inclusive trip is not possible. An all-inclusive trip is possible, provided that the active tariff permits this.	0
F3.0503	Input time all-inclusive trip (in seconds)	0-299	Within a time window the driver can change the price or correct any input errors after an all-inclusive trip has been started.	20
F3.0505	Switch-off the taximeter manually	0 1	The driver cannot switch the taximeter manually to sleep mode. The driver can use the buttons to switch the taximeter manually from FOR HIRE or signed-off mode to sleep mode (not possible in HIRED). Not possible in FOR HIRE if pause mode is enabled [F4.0001 = 1].	1
F3.0506	Roof sign	0 1	The driver cannot switch off the roof sign manually. The driver can switch off the roof sign manually in FOR HIRE mode.	1
F3.0507	Trip marking in signed-off mode	0 1	Trips in signed-off mode can not be marked as private or work-related. Trips in signed-off mode can be marked as private or work-related.	0
F3.0508	Input of customer numbers	0 1	Input of customer numbers blocked. Input of customer numbers released.	0

Configuration of outputs

F3.0600	Roof sign status	1 2 3	Roof sign status (target state) is displayed in the TAXI information field. Roof sign status (actual state) is displayed in the TAXI information field. Neither the roof sign status target state nor the actual state is displayed.	2
F3.0700	Volt level at taximeter status output	2 1	The taximeter status output is 0 V in FOR HIRE mode. The taximeter status output is 12 in FOR HIRE mode.	1
F3.0701	Taximeter status output in STOPPED	0 1	The taximeter status output (for data radio) is like HIRED status in STOPPED. The taximeter status output (for data radio) is like FOR HIRE status in STOPPED.	0

5.5. Pause Settings

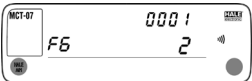
The F4 main category contains all settings for active and passive pauses, as well as general pause functions.



Parameter	Designation	Value	Description	Default Setting
F4.0001	Active pause mode	0 1	No active pause possible. Active pause possible. In FOR HIRE mode, press the buttons ④ and ③ to enter pause mode [OFF mode is then only possible in signed-off mode].	0
F4.0002	Minimum pause time	0-999	Minimum duration of a pause [in minutes] Note: Until the minimum pause time is reached, the taximeter shows Wait . The minutes displayed are not yet considered to be part of the pause.	15
F4.0003	Taximeter status in active pause	0 1	The taximeter status is set to "not active" during an active pause. The taximeter status remains active during an active pause.	1
F4.0004	Roof sign in active pause	0 1	During an active pause, the roof sign remains unchanged. During an active pause, the roof sign is switched off.	0
F4.0005	Speed limit for active pauses	0 1	The active pause is not automatically exited if the vehicle is driven. The active pause is automatically exited if the speed is higher than the limit which has been programmed.	0
F4.0006	Speed limit [km/h]	1-299	The active pause is exited as soon as the driver exceeds the speed which has been set.	1
F4.0007	Passive pauses	0 1	No passive pause is activated. After a pre-set time without driver activity, a passive pause is activated automatically.	0
F4.0008	Exceeding passive pause time	2-999	This parameter stipulates after how many minutes without any action from the driver the passive pause is activated. Note: The driver is informed one minute before the time expires.	15
F4.0009	Taximeter status in passive pause	0 1	The taximeter status is set to "not active" during a passive pause. The taximeter status remains active during a passive pause.	1
F4.0010	Roof sign in passive pause	0 1	During a passive pause, the roof sign remains unchanged. During a passive pause, the roof sign is switched off.	0

5.6. Taximeter Service Settings

HALE Taximeter Service offers a perfect integration with dispatch systems. The F6 category contains those taximeter service settings which are configurable in owner mode. Pls. check out settings for tariff preselection, fixed fare transmission and other features with your workshop.



Parameter	Designation	Value	Description	Default Setting
F6.0001	Interface where the taximeter service is provided	1 2 3 4 5	serial Bluetooth CAN 0 / CAN 1 CAN 1 no	2
F6.0100	Alive enabled	1 0	The taximeter service locks the taximeter, if no alive messages from the dispatch system are received. The taximeter service does not lock the taximeter, if no alive messages are received.	0
F6.0101	Alive timeout [sec]	3-86400 *	Timeout in seconds after which the taximeter is locked, if no alive messages are received from the dispatch system. [only editable if F6.0100 = 1]	15

* 86400 sec = 24 hours

5.7. Export of Owner Parameters

► In OC mode, press the ② and ④ buttons.
InP o-tAG appears on the display.

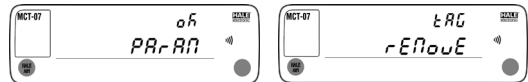
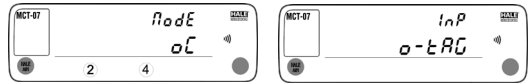
► Hold the owner card in front of the NFC reader.

The taximeter now copies all of the set owner parameters to your card. **PARAM CoPY** is displayed.

If the data cannot be exported, **Err CoPY** appears.

When all data has been copied, **OK PARAM** is displayed.

► Remove the NFC card as soon as **tAG rEMoVE** appears.



5.8. Import of Owner Parameters

► Hold the owner card with the exported data in front of the NFC reader of another taximeter.

The parameters are imported.

► Save the data with the buttons ④ and ②.



i The following owner parameters are not transferred and have to be entered manually when required:

- F0.0003
- F0.0004
- F0.0006
- F0.0007

i You can store either owner parameters or the trip memory on the owner card.

6. Totalizers

The taximeter MCT-07 has a total of 28 totalizers:

14 shift totalizers [F01 to F14]

... contain current values of the present shift.

The counters are reset to 0 at the end of the shift.

The driver can read off the shift totalizers during the shift [if enabled by the owner].

14 absolute totalizers [A01 to A14]

... contain values of the vehicle that have been counted since the taximeter was switched on.

These can usually only be read off by the owner in OC mode, unless they are enabled in parameter F2.0300 for the driver. The absolute totalizers are not reset at the end of the shift.


Totalizers:

14 Driver and 14 Absolute Totalizers

- 32 bit counters, 4,2 billions

- Distance counter: display in km with 1 decimal place, ab 99999.9 as scrolling text, max. 4,2 Mio. km, resolution „m“

- Currency counter: display in MU* with 2 decimal places - 9999.99; since 9999.99 displayed as scrolling text, max. 4,2 billion Euro or SMU** 429 Mio, resolution 1/1000 € or 1/10 SMU [*MU = monetary unit; **SMU = smallest monetary unit]

 If no button is pressed for 20 seconds when the totalizer is being read off, the taximeter switches to OC mode.

6.1. Overview of Totalizers

Shift Totalizers	Absolute Totalizers	Function
F1	A1	Total kilometers [km]
F2	A2	Hired kilometers [km]
F3	A3	Number of trips [number]
F4	A4	Total extras [amount]
F5	A5	Total fares without extras [amount]
F6	A6	Total fares including extras [amount]
F7	A7	Number of selected extras [number]
F8	A8	Increments [number]
F9	A9	Incremental amounts [amount]
F10	A10	Flag drops [amount]
F11	A11	Waiting time increments [amount]
F12	A12	Seat sensor in use [km]
F13	A13	Special trips [km]
F14	A14	km in stopped [km]

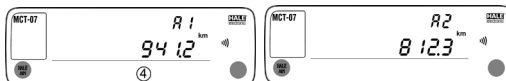
6.2. Reading off the Absolute Totalizers

- Turn the taximeter to OC mode [▷ page 6] and press button ②.

The first absolute totalizer is displayed.



- Press button ④ to move to the next totalizer.

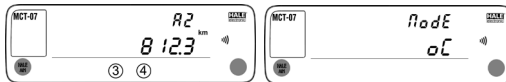


- Press button ③ to return to the previous totalizer.



- Interrupt the reading process with the buttons ④ and ③.

The taximeter returns to OC mode.



6.3. Print-out of the Absolute Totalizers

- Switch the taximeter to OC mode [▷ page 6] and press button ② until the connected printer starts to print.

The taximeter prints the absolute totalizers.

[Totalizers whose value is 0 are not usually printed.]

6.4. Print-out of the Shift Data

- Switch the taximeter to OC mode [▷ page 6] and press button ③ until the connected printer starts to print.



The taximeter starts printing with the latest shift report. Button ④ can be used to stop the printing.

7. Time and Date

7.1. Reading off the Time and Date

- ▶ In OC mode, press the ④ button.
The current time is displayed.



- ▶ Continue pressing in order to display the date and year.



7.2. Correcting the Time to 00 Minutes

You can change the time once a week
[set minutes to 0]:

- Every hour on the hour
- max. +/- 2 min. per week
- ▶ Press and hold the ② button.
- ▶ On the hour [radio gong] you can also press button ③.



7.3. Displaying the Owner Number

- ▶ In the year display (see 7.1), press button ④.
The owner number is displayed.



- ▶ In order to reset the owner number [to 0],
press the buttons ② and ①.

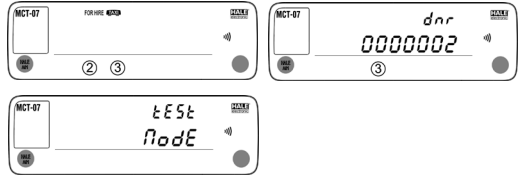


8. Test Mode

- For reading off and checking all of the taximeter parameters that have been set
- For reading off the taximeter operating program
- For performing various functional tests

8.1. Switching to Test Mode

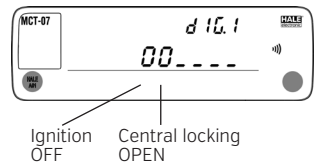
- ▶ Log the shift off with the buttons ② and ③.
- ▶ Press button ③ to switch to test mode.
- ▶ With button ③ you return to the signed-off mode.



8.2. Reading off Information

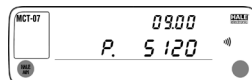
The following information is available when "switching through" with button ④ (> next) or button ③ (< back) in this order:

- Program version
- Serial number of the device
- HALE Software Release
- Checksums:
 - P.CSU (program checksum)
 - B.CSU (type-specific configuration)
 - C.CSU (secure country-specific checksum)
 - PR.CS (printer checksum)
 - U.CSU (bootloader version)
 - S.CSU (device-specific settings)
 - A.TCS (calibration checksum of the current tariff)
 - F.TCS (calibration checksum of the future tariff. 0, if none available)
 - S.PAR (device parameters)
- Time: Set time
- dAtE: Current day and month
- YEAr: Current year
- A.tAG: Number of last used workshop card
- B.REV, S.REV: Hardware version
- Digital Inputs (Dig.I):
 - 6 positions available: Position 1 (ignition), position 2 (central locking), position 6 (roof sign status)
 - Each position is represented by _ (not available), 0 (off) or 1 (on)
- Signal source
- W + number: Characteristic coefficient (vehicle constant k)
- Measurement (reset with button ②, on/off with button ①)
 - SEC (time)
 - MET (distance measurement test): press button ① to switch to the impulse counter (IMP)
 - SPD (speed)
- Display test: cyclic switching of all individual segments (stop with button ②, continue with button ②)



8.3. Setting the Display Brightness

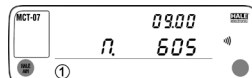
- ▶ After the display test, press button ④ in test mode
Now the taximeter shows the ambient brightness (e.g. 09) and – in the fare field – the current display brightness (e.g. P. 5120).



You can now regulate the brightness of your display manually.

Maximise -

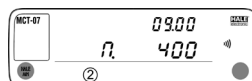
- ▶ Press button ① to increase the brightness value (display becomes brighter).



Minimise -

- ▶ Press button ② to decrease the brightness value (display becomes darker).

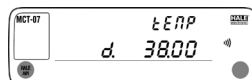
Pressing the buttons ① and ② changes the display briefly to, for example, M 605.



Showing the Display Temperature

- ▶ After adjusting the brightness, use button ④ to display the temperature.

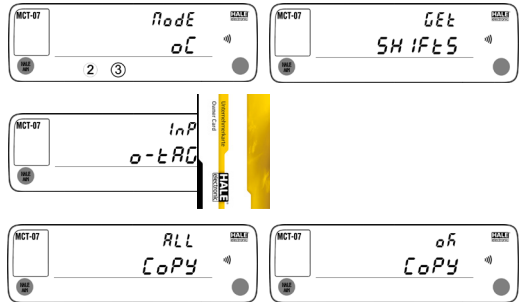
i The temperature is displayed in °C.



9. Trip Memory

9.1. Copying the Trip Memory

- In OC mode, press the buttons ② and ③.
- The data to be copied is generated.
- Then hold the owner card in front of the NFC reader.



The taximeter now copies the entire trip memory to the card in accordance with the parameter F3.0212.

- As soon as **OK CoPy** appears you can remove the card again.

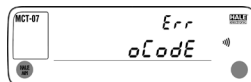
i You can store either owner parameters or the trip memory on the owner card.

10. Warnings

Incorrect Owner Code

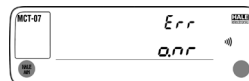
The owner code has been incorrectly entered.

If you enter an incorrect code 5 times, code entry is blocked and is only possible again after 24 hours.



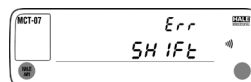
Incorrect Owner Number

An unauthorised owner card has been used.



Copying the Trip Memory failed

In F3.0212, set the number of days to be copied (at least 1) so that you can copy trip memory data.



11. System Extensions

11.1. Thermal Paper Printer TPD-02

Fast, accurate and with „Easy Paper Load“
Original HALE thermal paper – indelible for 10 years storage
Low current consumption through autosleep and wake-up
Network-compatible through HALE CAN Bus, interface for HALE taximeter
Optionally with Bluetooth (version TPD-02-BT)



The multifunctional printer – 1 printer for all applications in taxi:

- taxi receipts
- shift reports
- trip memory printouts
- utilisation figures
- payment receipts from credit card terminals
- printouts from data terminals and apps

11.2. System extension NFC

The HALE NFC media are the successors to the tried and tested HALE Cey system. The NFC reader is integrated directly into the MCT-07 Taximeter. Handy driver cards are used for the data transmission of all shifts and trips from the taximeter to the PC where they can also be evaluated and brought to account. Through the use of HALE NFC cards, there are further advantages such as easier shift log-on and off for the drivers and improved monitoring of the shift operation for the owner.

With the HALE Operations accounting software you know what is going on in YOUR taxis – the ideal system for any taxi operator.



Driver's card



Owner card



PC in the office + NFC reader

HALE NFC cards	Colour	Use
Driver's card (1 per driver)	green	<ul style="list-style-type: none">• Shift log-on and off• Driver identification• Transfer of shift data from the taximeter to the office
Owner card (1 per operation)	yellow	<ul style="list-style-type: none">• Access to the taximeter functions that are disabled for the driver [OC mode]• Subsequent reading-out of older shifts from the trip memory of the taximeter [e.g. in the case of a lost driver's card]• Transfer of owner data to the taximeter (instead of manual entry)

System extension HALE data center Package overview

HALE Operations
Financial data (not signed) <ul style="list-style-type: none">• Start / end of shift• Driver / vehicle number• Fare, total revenue• Extras• Empty / hired km• Number of trips• VAT rate <ul style="list-style-type: none">• Driver and vehicle data• Recorded editing of data• Cancelled and inserted trips Trip memory data <ul style="list-style-type: none">• Failed/cancelled trips• Trips in signed-off mode• Empty trips• Credit trips and patient transport• Special trips Recording of working time with active and passive pause
Via modem or NFC card



Taximeter



Taxi software
Driver and working time accounting
INSIKA data center
Cab Tracking and dispatching



Roof sign



Accessories
Printer
Seat Sensors
CAN adapter
Taxi alarm

www.hale.at
www.taxameter.de
www.dachzeichen.de
www.hale-electronic.com
www.fiskaltaxameter.expert
Mailto: marketing@hale.at