

**HALE**<sup>®</sup>  
electronic

HALE - The future in taxi



**MCT-06**

**Driver manual**  
version EUD6

BAF-06-EUD6-en

**Microtax<sup>®</sup>-06**



Approved according to EC type approval 2004/22/EC: pls. refer to the rear page of the manual.



Type approval as per directive 72/245/EWG, last modified by the directive 2006/28/EG „electromagnetic compatibility in the car“.



The HALE quality management system complies with the requirements of standard EN ISO 9001:2008.

Driver manual

Microtax<sup>®</sup> MCT-06 / EUD6.0 / SW 10.09.2008

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Author: 55

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## Table of contents

Introduction . . . . .	4
Display and operation . . . . .	5
Hire operation . . . . .	6
Extras . . . . .	7
STOPPED . . . . .	8
FOR HIRE . . . . .	10
Print receipt . . . . .	13
Package trip . . . . .	14
Totalizers . . . . .	16
Start shift . . . . .	18
End shift . . . . .	20
Mode between shifts . . . . .	22
Date and time . . . . .	24
Manual OFF-Mode . . . . .	26
Automatic OFF-Mode . . . . .	27
General instructions . . . . .	28
Start shift with Cey-System . . . . .	29
End shift with Cey-System . . . . .	30
Error and warning messages . . . . .	31
Error messages - Cey-System . . . . .	34
Error messages printer . . . . .	36
Error messages receipt journal . . . . .	37

## Introduction

### Symbols



This remark calls your attention to dangers or possible faulty operations.



This hint gives you advices or continuative information.



Press the corresponding key.



This sign indicates to do something.



Refer to page x (> page x)

### Operation modes

#### Normal operation

for single proprietors: no shift operation

#### Operation with driver log-on

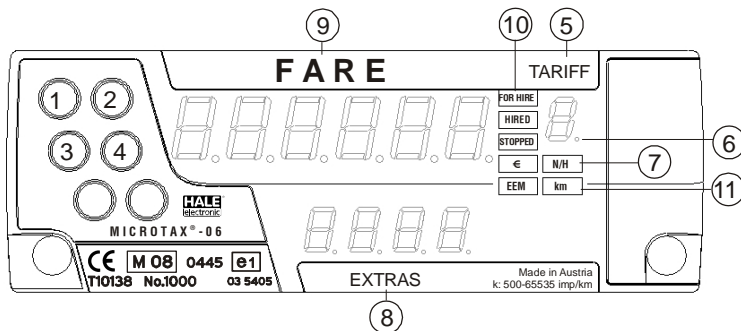
for multi cab owners: the driver starts the shift by entering his driver number, confirming it with key ④ and pressing keys ② + ③.

#### HALE Cey-System operation

for taxi fleets: each driver starts and ends his shift by snapping the driver-Cey into the Cey-Contact and pressing keys ② + ③. The shift is ended by pressing keys ② + ③ and snapping the driver-Cey into the Cey-Contact (the data of the ended shift is copied onto the Cey and can be accounted with the PC program Cab Assistant).

## Display and operation

### Display and keys of MCT-06



<b>1 - 4</b>	operating keys	<b>8</b>	extras display
<b>5</b>	tariff display (rate)	<b>9</b>	fare display
<b>6</b>	roof sign status display	<b>10</b>	status display FOR HIRE / HIRED / STOPPED
<b>7</b>	currency / N/H: night or holiday tariff	<b>11</b>	EEM: enhanced extras mode / km-display

# Hire operation

## Hire operation

### Switch taximeter on

- ▶ Press key ① in FOR HIRE.
- ▶ If programmed you can also use key ② (2,5 seconds).



- i** Enter driver number resp. start shift (▶ page 18) or snap the driver-Cey (only with Cey-System operation mode (▶ page 29)).

### Switch to next tariff

- ▶ Press key ① again.
- If programmed, you can also use key ④.



- i** On time tariff counting, the currency LED is flashing.

### Switch to previous tariff

- ▶ Press key ② (if programmed).
- If programmed, you can also use key ④.



## Extras

### Enter extras (if programmed)

- ▶ Press key ③ (extra 1) or key ④ (extra 2) until the requested amount is displayed.



### Delete extras (if programmed)

- ▶ Press key ④ to delete one extra.
- ▶ Press key ④ and ③ to delete all extras.



**i** If programmed, extras can also be calculated automatically (controlled by the taximeter).

The manual for input of further extras (enhanced extras mode EEM) can be requested via E-mail to [marketing@hale.at](mailto:marketing@hale.at).

# STOPPED

## STOPPED

### Switch taximeter to STOPPED

▶ Press key ① in the highest tariff.

Info: If programmed, you can also switch to STOPPED from each tariff with key ④.



**i** If programmed, you can switch from STOPPED to the previous tariff with key ②.

### Add extras

▶ Press key ④ in STOPPED.

The sum of fare and extras is displayed for 5 seconds (this time is programmed in the tariff).



## Conversion national currency - second currency

- ▶ If programmed, the fare can be switched from national currency to second currency by pressing key ③. This is only possible in position STOPPED, after fare and extras have been added or if the fare of the last trip is displayed.

**i** This function can be blocked in the tariff!





## Distance of the last trip

- ▶ After displaying the last fare, the distance of the last trip is displayed automatically or by pressing key ④.

The distance of the last trip is displayed for 5 seconds. The display can be interrupted with key ④, the taximeter goes back to FOR HIRE.



only (NL)

## Night tariff

If N/H is lightened, a night or holiday tariff is valid.

## Switch roof sign on or off

(This function can be blocked by the owner.)

- ▶ Press key ④ in FOR HIRE until the status display of the roof sign stops to light or lights again.<sup>a</sup>

So you can switch off the roof sign when driving to a customer. At the next activation the roof sign is automatically switched on again.



- a. If the display is flashing, the roof sign is defective. The supervision does not work, if the vehicle has an external control unit for the roof sign (if the current consumption of the taximeter is too small).

## Roof sign indication



Dot in the tariff field.

Roof sign is switched on and illuminated.



Flashing dot in the tariff field.

Roof sign is switched on, but no current is detected.



No dot in the tariff field.

Roof sign is switched off.

## Print receipt

- ▶ Press key **3** in FOR HIRE until the printer starts to print. The printout can be stopped with key **4**.

Fare and extras of the last trip are displayed.

If programmed, the display automatically changes from fare to VAT percent display.

The percent display is flashing during the TPD-01 is printing. You can switch between the programmed value (e.g. 10%) and 0% with key **1**.

The receipt shows the VAT-rate, shown in the extras field.



RECEIPT NO.	2
COPY	
	
08:30 - 08:52	15.08.08
DRIVER NO.:	1001
John Smith	
CAR NO.:	ABC 272
DISTANCE km	11,5
FROM: .....	
TO: .....	
TARIFF:	1
FLAG DROP:	€ 10,00
T. € / km	€ / min
1 2,00	0,50
€ 6,90	
-----	
FARE	€ 16,90
-----	
INCL. VAT	
TIP	€
Many thanks for your order!	

## Package trip

### Package trip

(trip with price agreed upon / fixed price)

#### Package trip (if programmed)

- ▶ Press keys ② and ④ in FOR HIRE.

The first digit is flashing.



#### Enter price agreed upon

- ▶ Press key ① to increase the value of the flashing digit.
- ▶ Press key ② to get to the next digit.
- ▶ Press key ④ to confirm the price.

Within 20 seconds you can correct the price:

- ▶ Press key ② to get back to the input of the price.



## Switch taximeter to STOPPED

- ▶ Press key ① to switch to STOPPED.



## Switch taximeter to FOR HIRE

- ▶ Press key ① until the taximeter goes to FOR HIRE.



## Totalizers

The 14 shift totalizers of the taximeter (d01 - d14) contain the current values of the present shift and are reset automatically at the end of the shift.

### Display of shift totalizers

- ▶ Press key ② in FOR HIRE - the current shift number is displayed.
- ▶ Press key ④ - the first shift totalizer (total km) is displayed.



### Switch to next / previous totalizer

- ▶ Press key ④ to switch to the next totalizer.
- ▶ Press key ③ to switch to the previous totalizer.



## Overview of shift and absolute totalizers

totalizer	function	totalizer	function
<b>A01/d01</b>	total km	<b>A08/d08</b>	tariff 3 km
<b>A02/d02</b>	revenue km	<b>A09/d09</b>	tariff 4 km
<b>A03/d03</b>	number of flag drops / trips	<b>A10/d10</b>	tariff 5 km
<b>A04/d04</b>	total extras [amount]	<b>A11/d11</b>	waiting time increments
<b>A05/d05</b>	fare increments [amount]	<b>A12/d12</b>	total fares
<b>A06/d06</b>	tariff 1 km	<b>A13/d13</b>	special trip km
<b>A07/d07</b>	tariff 2 km	<b>A14/d14</b>	credit revenue



Blocked totalizers are not displayed.

If programmed, the absolute totalizers are displayed after or instead the shift totalizers.

Display of totalizers can be interrupted at any time (▷page 28).

Depending on the country, there can also be miles instead of km!

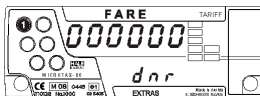
## Start shift

### Start shift

- i** If the taximeter is in FOR HIRE, please end the current shift (▷ page 20 or page 30).

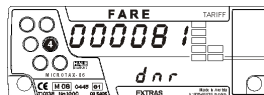
The taximeter is in MODE BETWEEN SHIFTS.

- ▶ Press key **1** to get into the mode for input of driver number.



### Enter driver number

- ▶ Press key **1** to increase the value of the flashing digit.
- ▶ Press key **2** to get to the next digit.
- ▶ Press key **4** to confirm the input.



## Start shift

- ▶ Press and hold key ②.
- ▶ Press key ③ additionally.

The taximeter changes to FOR HIRE. The roof sign is switched on automatically.



- i** Automatic start of shift: If no key is pressed for 20 seconds in MODE BETWEEN SHIFTS, a shift with the displayed driver number is started automatically (if programmed).

## End shift

### End shift

- ▶ Press and hold key ② in FOR HIRE.
- ▶ Press key ③ additionally.


As long as key ② is holded, the current shift number is displayed.

Then the taximeter is again in MODE BETWEEN SHIFTS and the shift totalizers are reset to 0.



If a printer is connected, a shift report is now printed automatically.

Set parameters of the shift report: ▷ owner manual.

SHIFT REPORT No. 7	
 <i>Transport Co.</i>	
08:30	15.08.08
LICENCE No.	12345
DRIVER No.	ABC 81
CAR No.	ABC 471
SHIFT REPORT	
1. TOTAL	km 149,8
2. REVENUE	km 121,7
3. TRIPS	6
4. EXTRAS	€ 53,50
12. FARES	€ 74,10

standard shift report

UTILISATION HIRED	81%
REVENUE/km	€ 1,03
TOTALIZER REPORT	
1. TOTAL	km 985,2
2. REVENUE	km 437,3
3. TRIPS	52
4. EXTRAS	€ 65,30
5. FARE INCR.	€ 98,99
6. TARIFF 1	km 57,2
7. TARIFF 2	km 42,4
8. TARIFF 3	km 72,6
9. TARIFF 4	km 32,4
10. TARIFF 5	km 41,0
11. WAIT. INCR.	€ 12,40
12. FARES	€ 86,40
14. CRED. REVENUE	€ 31,20
BEG.END NONREV. OCC. FARE	
DATE: 15.08.08	
08:37 08:45	0,0 6,0 ***SF *
08:47 08:49	0,0 2,7 ***SF
BEG.: 08:51 DRIVER NO. 81	
08:52 09:02	5,2 1,0 6,40
POWER FAILURE: 06:38 15.08.	
06:41 15.08.	
09:02-09:16	0,1 7,7 11,00*
09:19-09:23	0,1 1,3 ***SF*
09:25-09:47	3,9 9,4 20,00P
09:49-10:13	0,0 5,0 ***SF
10:17-10:28	8,0 11,2 25,00p
END: 10:30	3,4

enhanced printout

## Mode between shifts

### Mode between shifts


#### Print shift report manually or repeat printout

If no automatic printout is set or not more than 4 minutes have passed by since the last end of shift, you can start the printout manually or print again the last (automatically) printed shift report.

After changing the driver number or switching the taximeter to OC mode, the shift report can not be printed again.

- ▶ Press key ③ in MODE BETWEEN SHIFTS until the printout starts.



SHIFT REPORT No. 7	
 Transport Co.	
08:30	15.08.08
LICENCE No.	12345
DRIVER No.	ABC 81
CAR No.	ABC 471
SHIFT REPORT	
1. TOTAL	km 149,8
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standard shift report

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11. WAIT. INCR.	€ 12,40
12. FARES	€ 86,40
14. CRED. REVENUE	€ 31,20
BEG.END NONREV. OCC. FARE	
DATE: 15.08.08	
08:37 08:45	0,0 6,0 ***SF*
08:47 08:49	0,0 2,7 ***SF
BEG.: 08:51 DRIVER NO. 81	
08:52 09:02	5,2 1,0 6,40
POWER FAILURE: 06:38 15.08.	
06:41 15.08.	
09:02-09:16	0,1 7,7 11,00*
09:19 09:23	0,1 1,3 ***SF*
09:25 09:47	3,9 9,4 20,00P
09:49-10:13	0,0 5,0 ***SF
10:17-10:28	8,0 11,2 25,00P
END: 10:30	3,4

enhanced printout

### Private use

If you drive without having started a shift, a short warning signal sounds. During the trip **SHIFt OFF** is displayed, which indicates the private trip.



## Date and time

### Display time

- ▶ Press key ④ in FOR HIRE or in MODE BETWEEN SHIFTS.



### Correct time

You can correct the time once a week (set minutes to 0):

- at each full hour (except: 0:00 o'clock)
- maximum +/- 2 min.
- ▶ Press and hold key ②.
- ▶ Press key ③ additionally at full hour (radio gong).



## Display day, month and year

▶ Press key ④, when time is displayed.

The current day and month is displayed.

▶ Press key ④ again.

The current year is displayed.

▶ Press key ④ again to get to FOR HIRE.



# Manual OFF-Mode

## Manual OFF-Mode

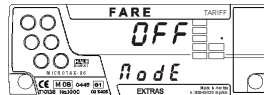
### Switch taximeter off manually (if programmed)

- ▶ Press and hold key ④ in FOR HIRE or in MODE BETWEEN SHIFTS.

The current time is displayed.

- ▶ Press key ③ additionally.

A signal sounds and the taximeter and the roof sign are switched off.



- i** When switching the ignition on, a signal sounds and „MODE-OFF“ is displayed for 2 seconds.

### Switch taximeter on manually

- ▶ Press key ①.

The taximeter is in FOR HIRE or in MODE BETWEEN SHIFTS.



## Automatic OFF-Mode

(Power save mode - < 0,4 mA)

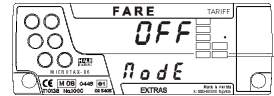
- ▶ Switch in FOR HIRE or in MODE BETWEEN SHIFTS the ignition off.

The taximeter changes immediately or after expiration of a delay time (programmable in owner mode: 1-255 minutes, standard setting: 30 minutes) automatically to OFF-Mode.

### Switch on automatically

- ▶ Switch the ignition on.

The taximeter is automatically ready for operation again and in FOR HIRE or in MODE BETWEEN SHIFTS.



## General instructions

### General instructions

#### Back to FOR HIRE at any time

You can interrupt displaying of time and date, totalizers or the Test-Mode at any time:

- ▶ Press and hold key ④.
- ▶ Press key ③ additionally.

The taximeter changes to FOR HIRE.



#### **i** After 20 seconds automatically to FOR HIRE:

If no key is pressed for 20 seconds, when displaying time and date or totalizers, the taximeter automatically switches to FOR HIRE.

#### **i** Voltage interruption (after 15 seconds to FOR HIRE):

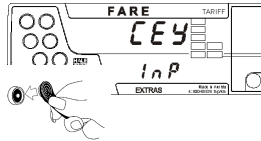
If the supply voltage of the taximeter is interrupted for more than 15 seconds in OCCUPIED or STOPPED, the display is flashing for approx. 10 seconds<sup>a</sup> when starting again. Then the taximeter changes automatically to FOR HIRE.

a. this time is programmable in the tariff, if set to 0, the display doesn't flash.

## Start shift with Cey-System

- ▶ Snap the driver-Cey into the Cey-Contact in MODE BETWEEN SHIFTS (Inp Cey).

The occupied memory of the Cey is displayed in percent.



- ▶ Remove the driver-Cey.

The taximeter shows your driver number.

If no key is pressed in the next 10 seconds, the taximeter changes to „InP CEY“!



- ▶ Press and hold key ②.

- ▶ Press key ③ additionally.

The taximeter changes to FOR HIRE. The roof sign is switched on automatically.



\*



**i** \* In case of a shift limitation on the driver-Cey, the Cey has to be contacted again for updating the number of started shifts.

## End shift with Cey-System

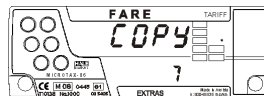
### End shift with Cey-System

- ▶ Press and hold key ② in FOR HIRE.
- ▶ Press key ③ additionally.

As long as key ② is pressed, the current shift number is displayed.

- ▶ Snap your driver-Cey into the Cey-Contact. Now the taximeter copies the data of the shift onto the driver-Cey (display shows shift number). A short signal sounds, if there is no error. If there is an error, a signal sounds and a message is displayed until the error is eliminated.

- ▶ Remove the driver-Cey. The shift totalizers are reset to 0, the shift is ended. The taximeter is in MODE BETWEEN SHIFTS.



In case of a connected printer, a shift report is now printed automatically (if programmed).

## Error and warning messages



### Tariff is expired, load new tariff

This message only appears, if there is an automatic tariff conversion with a currency conversion.

The present tariff is no longer valid, because the activation date of the future tariff has been reached.

- ▶ End the current shift with keys ② and ③ (▷ page 20 resp. page 30)  
The new tariff is automatically loaded in MODE BETWEEN SHIFTS.
- ▶ Start a new shift again.



### Trip memory nearly full

- ▶ Delete the error message with key ④.
- ▶ End the current shift in order not to loose any shift data.
- ▶ When using Cey-System: account the shift data on the PC.

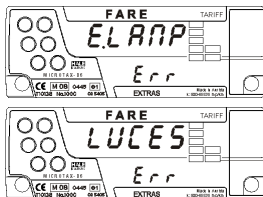


### Data radio occupied blockade

The taximeter is blocked by the data radio.

- ▶ Switch on the data radio.

# Error and warning messages



## Lamp error

Error with external lights.

- ▶ Check the external lights.



A warning signal sounds, when exceeding a certain speed.

## The speed limit warning signal is activated.

Please refer to owner parameter F312.



## Serial Lamp Driver not detected

- ▶ Delete the message with keys ④ and ③, if no SLD is connected during the display.
- ▶ Check the Cey cables from MCT-06 to SLD, check power supply to SLD, check tariff, change SLD.



## Warning due to distance pulse interferences or too high vehicle velocity

Is displayed for 2,5 seconds in the modes FOR HIRE, HIRED and MODE BETWEEN SHIFTS.

- ▶ Please contact your HALE service partner.



## Near end of duration

The owner or the HALE service partner has limited the duration of the taximeter: at the latest in 14 days the taximeter is blocked.



## End of duration

The owner or the HALE service partner has limited the duration of the taximeter: the taximeter is blocked.



## Tariff update

A new tariff (future tariff) is load into the tariff memory.

## Error messages - Cey-System



### Driver-Cey is full

The snapped driver-Cey has no more free storage space and can not store any new data.

- ▶ account and delete the driver-Cey.



### Cey contacting error

- ▶ Snap the Cey again into the Cey-Contact.



### No Cey-Code

The connected Cey-Contact is defective resp. not suitable for MCT-06.

- ▶ Please use a working Cey-Contact resp. a Cey-Contact suitable for MCT-06 (CEY-CON-06-CC).



### Cey error

After 'Err' the error number is displayed, with the following meaning:

- Err 2: There is no HALE-Cey in the Cey-Contact, resp. the Cey has been removed too soon.
- Err 7: Use of the snapped Cey-type is not possible at the moment.



## Wrong data format or end of data transmission

- ▶ Snap the right Cey into the Cey-Contact or
- ▶ remove the HALE-Cey from the Cey-Contact after end of data transmission.

## Error messages printer



### Printer has no paper

- ▶ Lay in new paper and start a new print try.



### No printer

- ▶ Check the supply and data cable of the printer.



### Channel busy

The HALE CAN is busy.

- ▶ Wait some time or interrupt the print try with key ④.



### Printer busy

The printer is used by other devices.

- ▶ Wait some time until the message disappears.

## Error messages receipt journal



### Electronic receipt journal is faulty

The receipt journal is faulty and can not be printed. The receipt journal is deleted.



### Data of one receipt is faulty

This receipt can not be printed.



### Electronic receipt journal is full

The receipts are automatically printed in duplicate, as there is no storage space in the receipt journal.

- ▶ End the current shift to print and delete the receipt journal.
- ▶ When using Cey-System: account the shift data on the PC.





mirror taximeter SPT-01, SPT-02



taximeter Microtax<sup>®</sup>-06



accounting software Cab Assistant  
Cey-System



Cab Tracking



thermal paper printer TPD-01



roof signs  
[www.taxi-sign.com](http://www.taxi-sign.com)



seat sensors

[www.hale-electronic.com](http://www.hale-electronic.com)  
mailto: [marketing@hale.at](mailto:marketing@hale.at)



## Konformitätserklärung Declaration of conformity



Hersteller:  
Manufacturer: HALE electronic GmbH  
Eugen-Müller-Str. 18, A-5020 Salzburg

Typ/Modell:  
Type/Model: Taximeter MCT-06  
Taximeter MCT-06

Nr. der EG-Baumusterprüfbescheinigung: T10138  
No. of the EC type examination certificate:

Benannte Stelle:  
Notified Body: BEV  
0445

Seriennummer:  
Serial:

Genauigkeit:  
Accuracy: Zeit +/- 0,1%, Strecke +/- 0,2%  
time +/- 0,1%, distance +/- 0,2%

Temperaturbereich:  
Temperature range: -25°C - +85°C

Mechanische Umgebungsklasse:  
Mechanical environment class: M3

Elektromagnetische Umgebungsklasse:  
Electromagnetic environment class: E3

Entspricht dem in der Bescheinigung über die Bauartzulassung beschriebenen Baumuster gemäß den Anforderungen der EG-Richtlinie 2004/22/EC.  
Corresponds to the production model described in the EC type-approval certificate according to the requirements of the Council Directive 2004/22/EC.

October 13<sup>th</sup>, 2008

Unterschrift  
Signature

Datum  
Date