# alBeReN

# iTAKSİ
# M12 TAXIMETER
# USER GUIDE

## CONTENTS

# 1. VIEW

## 1.1. FRONT VIEW

Taxameter Positionsanzeige

Kommunikationsstecker

Spiegel

TARIF
I

ZUSCH
3.50

2.70 CHF

Fahrpreis Anzeige

START >

STOP +

VACANT −

EXTRA ⏹

Dichtungskappe

Infrarot-Empfänger und Sender für die Setup-Gerät

Tastenfeld

Software-Update-Anschluss

versiegeln Schalter für die Verwendung Setup-Gerät

das Loch für Dichtschraube

## 1.2. REAR VIEW

Diese Abdichtung sichert die Schraube, mit der M12 die vorderen und hinteren Gehäuse zusammen und verhindert den Zugriff auf interne Teile

Diese Abdeckung und Abdichtung für Stromanschluss

Netzanschluss

Diese Abdichtung sichert die Schraube, mit der M12 die vorderen und hinteren Gehäuse zusammen und verhindert den Zugriff auf interne Teile

alBeReN CE M12 1432
ELECTRONICS LIMITED CO.
SERIAL NUMBER

| MODEL: | M12 | TYPE APPROVAL |
| k Constant: | 720~26.000 pu se/km | CERTIFICATE NUMBER |
| Elektromagnetic class: E3 | | SK 12-0XY M8-007 |
| Mechanical Class : | M3 | |
| Climatic class : | +5 °C to + 70 °C | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2012 | | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | |

Befestigungsschraube

Etikette

Befestigungsschraube

Das Loch des Kabelbinder für die Installation

Das Loch des Kabelbinder für die Installation

## 2. CABLES

### 2.1. POWER CABLE



Netzanschluss

Batterie 12 VDC
(rote Kabel)

Batterie 0 VDC (GND)
(blaue Kabel)

Dachlampenantriebs
12 VDC (Batteriespannung)
(grünes Kabel)

Geschwindigkeitsmesser
(gelbe Kabel)

### 2.2. POWER CABLE WITH SEAT SENSOR



Netzanschluss

Batterie 12 VDC
(rote Kabel)

Batterie 0 VDC (GND)
(blaue Kabel)

Dachlampenantriebs
12 VDC (Batteriespannung)
(grünes Kabel)

Geschwindigkeitsmesser
(gelbe Kabel)

die Abdeckung sor Abdichtung der
Sitzsensorkabel

Sitzsensor-Anschluss

### 2.3. PRINTER CABLE

## 3. KEY FUNCTIONS

| Keys | In mode "FOR HIRE" | In mode "HIRED" | While browsing in the menu | While changing parameters |
|---|---|---|---|---|
| START > | Starts the tariff | Select different tariff | Starts the tariff | Scroll digit |
| STOP + | Show time and date in three different format | Stop the tariff | Change to the next menu parameter | Increment digit |
| VACANT − | Show last fare, meter counting, speed | Pass to mode "FOR HIRE" | Change to the previous parameter | Decrement digit |
| EXTRA | Enter menu | Increment extra fee | Pass to sub menu | Confirm the changes |
| ⏻ | Cancel time, date, or speed showing | Cancel extra fee entered | Pass to the top menu | |

## 4. SOME SCREEN EXPRESSIONS WHILE THE TAXIMETER IS ON

| ENGLISH | EXPLANATION |
|---|---|
| FOR HIRE | |
| HIRED 1,2,3,… | HIRED Mode |
| STOPPED | Payment-Fare position (Total Fare) |
| EXTRA | while there are extra fare in the top screen |

## 5. CHARACTER TABLE

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Space | **Space** | | ? (Ö) | ō̄ | | J | ⌐J | | U | U |
| 0 | 0 | | @ (Ü) | ū̄ | | K | ʁ | | V | u |
| 1 | 1 | | A | A | | L | L | | W | ū̄ |
| 2 | 2 | | B | b | | M | n̄ | | X | H |
| 3 | 3 | | C | C | | N | n | | Y | ɥ |
| 4 | 4 | | D | d | | O | o | | Z | z |
| 5 | 5 | | E | E | | P | P | | | |
| 6 | 6 | | F | F | | Q | q | | | |
| 7 | 7 | | G | g | | R | ⌐ | | | |
| 8 | 8 | | H | h | | S | 5 | | | |
| 9 | 9 | | I | l | | T | ե | | | |

# 6. OPENING THE TAXIMETER

While the taximeter is turned off (there is no text on the screen);

If it is pressed to any key of the taximeter, driver selection menu is shown in upper screen. Also shift number is shown in lower screen. When each taximeter is closed and opened, shift number is incremented.
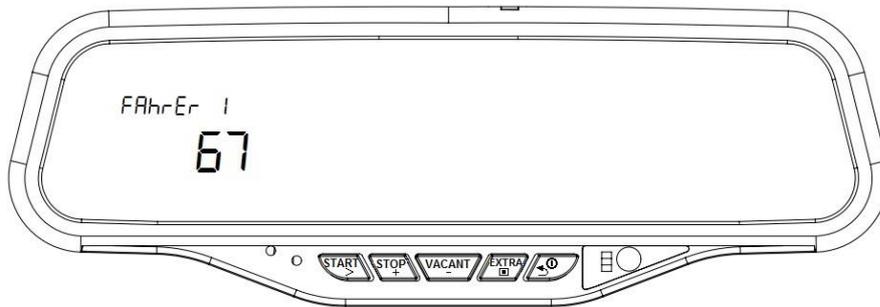


The driver can be changed by pressing  STOP +  or  VACANT −

There are 3 different users (drivers) in the taximeter. 4. User is admin. Separate records for every 3 drivers are saved. Fourth user-admin can see all records.

Later, if any password is entered for the drivers, the password menu is shown in the screen after pressed  EXTRA  button.
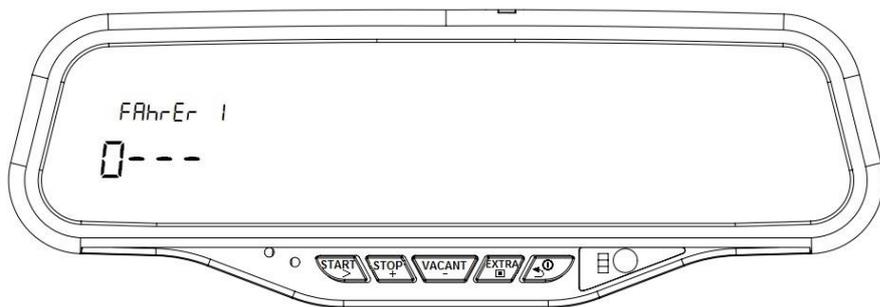


4-digit password is entered using  START > ,  STOP +  and  VACANT −  buttons.  Later, the taximeter is opened pressing  EXTRA  button.

## 6.1. OPENING THE TAXIMETER AS ADMIN

Fourth user of the taximeter is admin. When taximeter is opened as admin, the tariff is not opened.

It can be seen all revenue records of the 3 different drivers by admin. This records can be printed by admin. Also they can be erased by admin.

Drivers and admin passwords can be changed by admin.

## 7. DISPLAY SHIFT NUMBER

In FOR HIRE position when pressed [button icon] button, taximeter shows shift number. When each taximeter is closed and opened, shift number is incremented.

## 8. DISPLAY TIME AND DATE

There are three formats for showing time-date in the taxi meter:

When [STOP + button] button is pressed once in the "FOR HIRE position, time is shown in the upper screen as at the below.
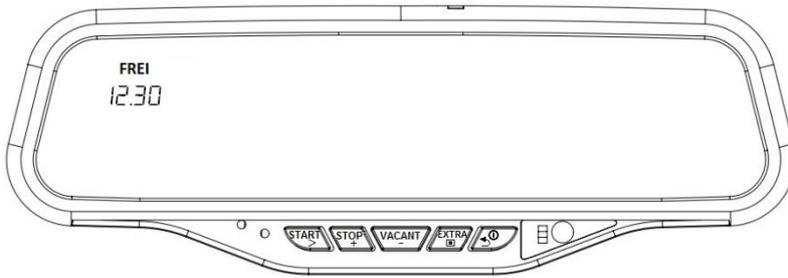


When [STOP + button] button is pressed a second time.
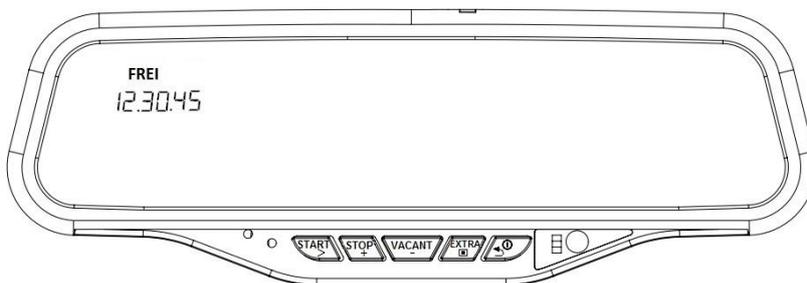


Lastly, when [STOP + button] button is pressed a third time.
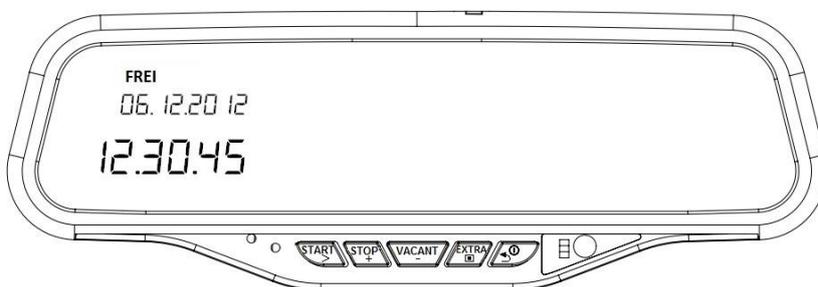


If the taximeter doesn't receive speed signal, the time-date information remains in the screen for 60 seconds.

## 9. DISPLAY LAST FARE, METER MEASUREMENT AND SPEED

When [VACANT] button is pressed firstly in the "FOR HIRE position,fare of the last trip is shown in the sub screen as at the below.



Press again [VACANT] button, meter measurement is shown in the screen as at the below. When vehicle moved, counter starts to count in meters.
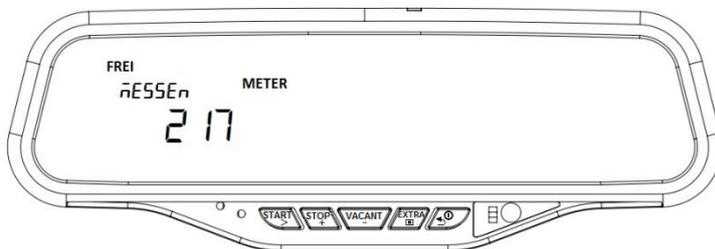


Press again [VACANT] button, speed of the vehicle is shown in the screen as at the below.
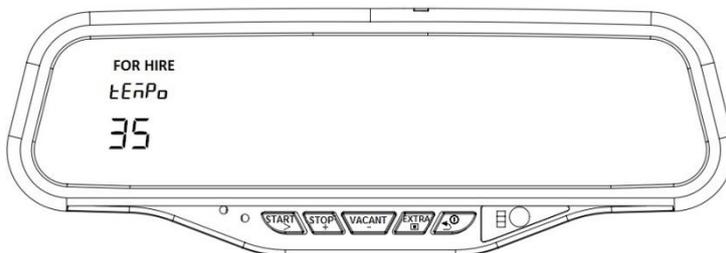


If the taximeter doesn't receive speed signal, the speed remains in the screen for 60 seconds

## 10. OPENING AND SELECTING THE TARIFF

When it is pressed to [START] button first time in the "FOR HIRE" position, the Tariff 1 is opened from the initial charge of Tariff 1 and the taximeter starts to calculate time and distance.
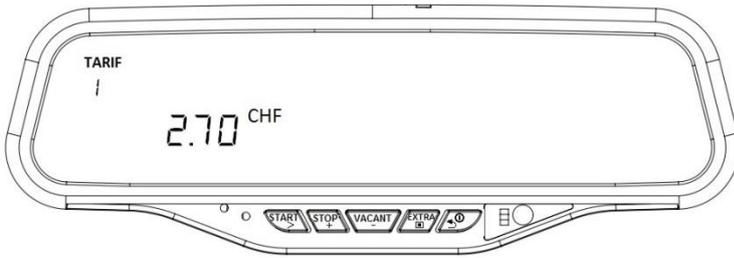
While the tariff is open, the tariff can be changed between loaded tariffs in 50 meters distance.
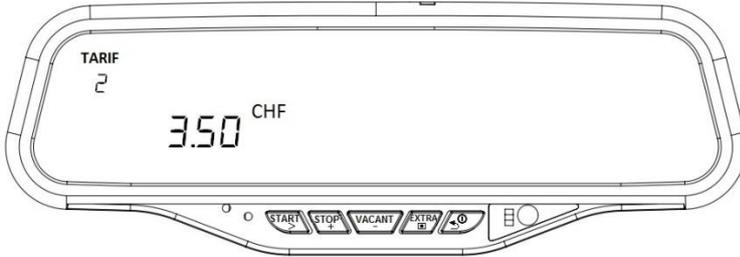


## 10.1.    TARIFF STRUCTURE

More than 30 tariffs can be loaded to M12 Mirror Taximeter. Also the automatic change of tariffs can be triggered by the distance, duration and fare. You can see the tariff data at the table below.

<table>
<tr>
<td colspan="3"><h2 align="center">M12 Taximeter tariff information</h2></td>
</tr>
<tr>
<td colspan="3">The period of validity loaded tariff depends tariff type. All detailed tariff information can be shown on print out. Only information of the active tariffs can be shown on the taximeter screen at that moment.<br>There are three types of the tariffs: Normal (N), Daily (D), Weekly (W)<br>The tariffs can be set according to specific date range periodically for every year: (HN), (HD), (HW)<br>Tariffs can be set according to specific date range: (SN), (SD), (SW)<br>Date-time formats of tariff validity duration are shown at the table</td>
</tr>
<tr>
<td><strong>Tariff date-time types</strong></td>
<td><strong>Date-time formats</strong></td>
<td><strong>Explanation</strong></td>
</tr>
<tr>
<td>Normal (N)</td>
<td>ALL YEAR<br>ALL TIME</td>
<td>All Year, All Time</td>
</tr>
<tr>
<td>Daily (D)</td>
<td>ALL YEAR<br>HH:MM-HH:MM</td>
<td>All Year, Specific time interval</td>
</tr>
<tr>
<td>Weekly (W)</td>
<td>ALL YEAR<br>MON     HH:MM-HH:MM<br>TUE      HH:MM-HH:MM<br>WED     HH:MM-HH:MM<br>..........................................</td>
<td>All Year, Specific time of the week days</td>
</tr>
<tr>
<td>Holiday Normal (HN)</td>
<td>START   DD/MM  HH:MM<br>END      DD/MM  HH:MM</td>
<td>Specific Date Interval for every year, start time of first day and end time of last day</td>
</tr>
</table>

| Holiday Daily (HD) | DATE    DD/MM-DD/MM<br>TIME    HH:MM-HH:MM | Specific Date Interval for every year, Specific time interval |
|---|---|---|
| Holiday Weekly (HW) | DATE    DD/MM-DD/MM<br>MON      HH:MM-HH:MM<br>TUE       HH:MM-HH:MM<br>WED     HH:MM-HH:MM<br>………………………………….. | Specific Date Interval for every year, Specific time of the week days |
| Specific Normal (SN) | START   DD/MM/YY  HH:MM<br>END       DD/MM/YY  HH:MM | Specific Date Interval, start time of first day and end time of last day |
| Specific Daily (SD) | DATE    DD/MM/YY - DD/MM/YY<br>TIME    HH:MM-HH:MM | Specific Date Interval, Specific time interval |
| Specific Weekly (SW) | DATE    DD/MM/YY - DD/MM/YY<br>MON      HH:MM-HH:MM<br>TUE       HH:MM-HH:MM<br>WED     HH:MM-HH:MM<br>………………………………….. | Specific Date Interval, , Specific time of the week days |
| **HH:** Hour Hour, **MM:** Minute Minute, **MM:** Month Month, **DD:** Day Day, **YY:** Year Year<br>If the "start time" bigger than "end time" in the daily and weekly tariffs,  it's mean: 00:00 to End Time and Start Time to 23:59 | | |

| **Tariff Parameters** | *Tariff 1* | *Tariff 2* | *Tariff 3* | *……………….* | *Tariff 40* |
|---|---|---|---|---|---|
| Init Charge (cent) | | | | | |
| Init Distance (meter/10) | | | | | |
| Init Duration (second/16) | | | | | |
| Unit distance(meter/100) | | | | | |
| Unit time (second/64) | | | | | |
| Unit distance fare (cent/10) | | | | | |
| Unit time fare (cent/10) | | | | | |
| Unit extra fare (cent/10) | | | | | |

## Tariffs which changed automatically as depends  <u>distance</u> of the journey

| | *Tariff 1* | *Tariff 2* | *Tariff 3* | *………………..* | *Tariff 16* |
|---|---|---|---|---|---|
| Limit distance (meter) | | | | | |
| Unit distance or unit distance fare (meter/100 or cent/10) | | | | | |
| Unit time or unit time fare (meter/64 or cent/10) | | | | | |

## Tariffs which changed automatically as depends  <u>duration</u> of the journey

| | *Tariff 1* | *Tariff 2* | *Tariff 3* | *…………………..* | *Tariff 8* |
|---|---|---|---|---|---|
| Limit duration(second) | | | | | |

| Unit distance or unit distance fare(meter/100 or cent/10) | | | | | |
| --- | --- | --- | --- | --- | --- |
| Unit time or unit time fare (second/64 or cent/10) | | | | | |
| | | | | | |

### Tariffs which changed automatically as depends <u>fare amount</u> in the journey

| | Tariff 1 | Tariff 2 | Tariff 3 | ………………….. | Tariff 8 |
| --- | --- | --- | --- | --- | --- |
| Limit fare amount(cent/10) | | | | | |
| Unit distance or unit distance fare(meter/100 or cent/10) | | | | | |
| Unit time or unit time fare (second/64 or cent/10) | | | | | |
| | | | | | |

### Tariffs which changed automatically as depends <u>speed exceeding</u> in the journey

| | Tariff 1 | Tariff 2 | Tariff 3 | ………………….. | Tariff 8 |
| --- | --- | --- | --- | --- | --- |
| Limit Speed (km/h) | | | | | |
| Sub Limit of the speed exceeding duration (Second) | | | | | |
| Unit distance or unit distance fare(meter/100 or cent/10) | | | | | |
| Unit time or unit time fare (second/64 or cent/10) | | | | | |

## 10.2. ENTERING EXTRA FEE

While the tariff is open, the extra fee is entered to upper screen by pressing extra button repeatedly.
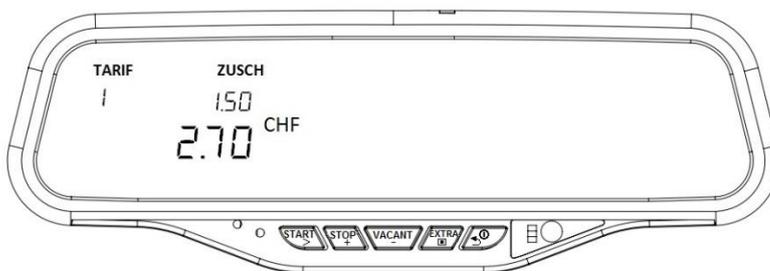


When it is pressed to extra button, extra fee is increased up to unit extra fee which loaded to the taximeter.

## 11. CLOSING THE TARIFF

After the tariff is opened;

If 50 meters are not passed or if the fare has not increase, the tariff can be canceled by pressing ⬡VACANT button.

Otherwise, it should be pressed ⬡STOP button firstly to close the tariff. So, total fare is shown sub screen as shown below.
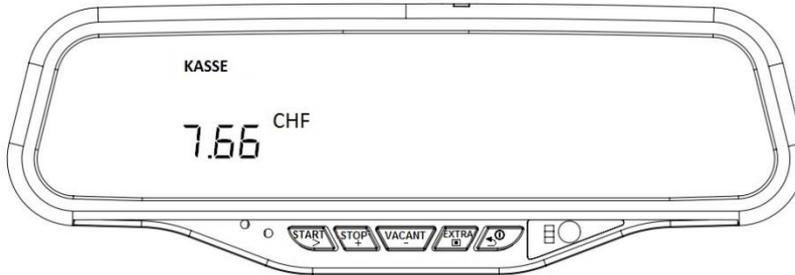


If a printer is connected to the taximeter,  it can be selected" 𝖯𝗋𝗂 𝗇𝗍 " by pressing ⬡STOP button again as shown below.
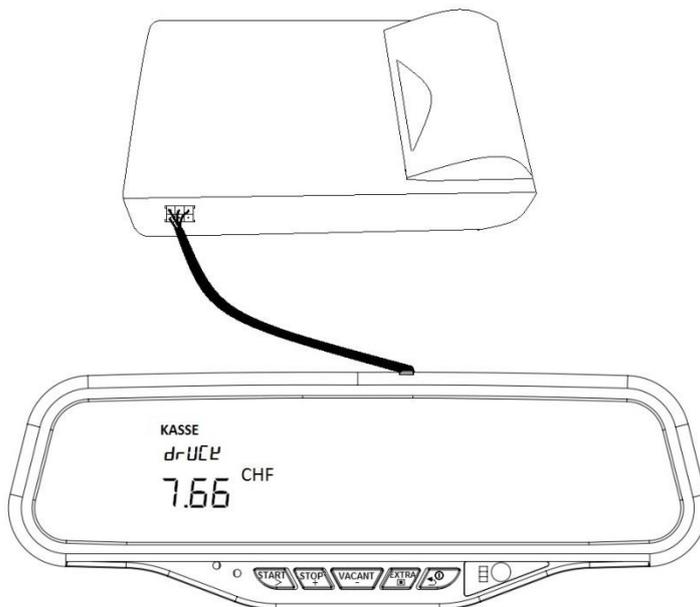


After selected  "𝖯𝗋𝗂 𝗇𝗍"  or "𝗍𝗈𝗍𝖠𝖫", pressed ⬡VACANT button. If 10 seconds have passed after ⬡STOP button pressed, the taximeter will pass to the "FOR HIRE" position. Otherwise, taximeter waits for 10 seconds in the "FARE" position.  If selected 𝖯𝗋𝗂 𝗇𝗍 , the printer prints a receipt.

## 12. ENTERING MENU

It can be reached to the menu by pressing ⬡EXTRA button in the "FOR HIRE" position. All information (as counters, setting parameters, etc) are shown in menu.

Structure of the menu is shown in menu table at the below.

### 12.1. MENU TABLE

| MAIN MENU | 1.SUB MENU | 2.SUB MENU | 3.SUB MENU | 4.SUB MENU |
|---|---|---|---|---|
| bErⁱ Chŀ Revenues | FAhrEr 1 Driver 1 | ŀoŀ ⱤⱭ Total distance (km) | If the taximeter is opened as Driver 1, Driver 2 or Driver 3; passing 1.SUB MENU (DRIVER 1, DRIVER , DRIVER 3 menu), directly reached to 2.SUB MENU (TOT DIST, HIRED DIST,… menu) of the driver. Counters can be printed if a printer connected. | |
| | | bES2ŀ ⱤⱭ Hired distance (km) | | |
| | | Anꓵ Fhrŀ Custom number | | |
| | | ꓵUSChLA9 Total Extra Fare | | |
| | | UⱭSAŀꓵ Total Fare | | |
| | | drUCⱶ Print the info | | |
| | | FAhr ⱶEn Driver Password | ⱶEnn ALŀ Old password | ⱶEnn nEU New password |
| | | If the taximeter has opened as administrator or entered to the menu with REMOTE CONTROL DEVICE, it is not asked old password. Also in this case, print out of the counters is printed for 3 drivers separately | | |
| | FAhrEr ꓵ Driver 2 | | | |
| | FAhrEr ꓴ Driver 3 | | | |
| | AdⱭⁱn Administrator | FAhr ⱶEn Driver Password | ⱶEnn nEU New Pwrd | |
| | ŀoŀ ⱭE9 Total Vehicle Km (Taximeter odometer) | | | |
| | 0 KM | | | |
| | bEr LoSC Erase Revenues | LoESChEn Erase!!! | All revenues information are erased | |

| MAIN MENU | 1.SUB MENU | 2.SUB MENU | 3.SUB MENU | 4.SUB MENU |
|---|---|---|---|---|
| ŀAⱧ ⁱnFo Taxi Information | Uhr2Eⁱ ŀ Time | | These parameters can be changed using only the Remote Control Device | |
| | dAŀⱭⱭ Date | | | |
| | ⱶonSŀ ⱶ Constant k | | | |
| | ⱶEnn2Eⁱ C Vehicle registration number | | | |
| | Lⁱ 2Enꓵ Taxi licence number | | | |
| | SErⁱ E nr Taximeter Serial Number | | | |
| | ꓵUSC ErL Permission for entering extra fee (Yes-No) | | | |
| | Uhr Eⁱ nS Permission of time setting (Yes-No) | | | |
| | ⱶEnn Eⁱ n Driver password (Yes-No) | | | |
| | ŀrF ⱭECh Automatic switching Tariff 1 to Tariff 2 (Yes-No) | | | |
| | Lⁱ Chŀ An Time of the light on for roof lamp | | These parameters can be change by users | |
| | LChŀ AUS Time of the light off for roof lamp | | | |
| | drUCⱶ Print the information | | All taxi information parameters can be printed if a printer connected | |

| MAIN MENU | 1.SUB MENU | 2.SUB MENU | 3.SUB MENU | 4.SUB MENU |
|---|---|---|---|---|
| ŀrF ⁱnFo Tariff Information | ŀArⁱ F 1 Tariff 1 | 9rUndPrS Initial charge | | |
| | | ErSŀ ⱭE9 Initial distance | | |
| | | ErSŀ2Eⁱ ŀ Initial time | | |
| | | ⱭE9 Eⁱ nh Unit distance | | |
| | | 2Eⁱ ŀEⁱ nh Unit Time | | |
| | | ⱭE9PrEⁱ S Unit distance fare | | |
| | | 2Eⁱ ŀPrEⁱ Unit time fare | While a limit meter values are shown at the upper display for auto distance tariffs, unit distance or unit distance fare values are shown at the lower display. | |
| | | EⱧŀPrEⁱ S Unit extra fare | | |
| | | 800- Sample limit meter value for auto distance tariffs | | |
| | | drUCⱶ Print Information | | |
| | | | All tariff information (tariff 1,2,3, ) can be | |

| | | | printed if a printer connected |
|---|---|---|---|
| | ᴛᴀrɪ F 2   Tariff 2 | | |
| | ᴛᴀrɪ F 3   Tariff 3 | | |
| | ................................. | | |
| | ᴛᴀrɪ F  ı0  Tariff 10 | | |
| | | | |
| drUCᴋ<br>Printer Reports | ᴛᴀ9 UnS   Daily Report | 0----- 6 digit password | |
| | ᴋnPL UnS  Total Counter Report | Time (unit: 0.5 second) on the top screen. Pulse counter on the sub screen | |
| | dEᴛᴀıL     Totals Report for past days (Maybe last 30 days) | The Remote Control Device Code which has changed the parameters as date, serial number or constant k | |
| nESSEn<br>Distance and Time Test | | | This measurement menu can be shown using only the Remote Control Device |
| uErSı on<br>Software Version and Setup info | | | The Remote Control Device Code which has changed the parameters as date, serial number or constant k |

## 13. CLOSING THE TAXIMETER

In FOR HIRE position when pressed [button] button, taximeter firstly shows shift number.

To close the taximeter, it is pressed to [button] button minimum 2 seconds while in the "FOR HIRE" position. While the taximeter is closed, when pressed any button, it passes to driver selection menu

## 14. SEAT SENSOR CONNECTION

Two pin of the seat sensor are connected to seat sensor pins of the power cable with seat sensor. It is not important which pin of the seat sensor to which pin of the seat sensor pins of the power cable.
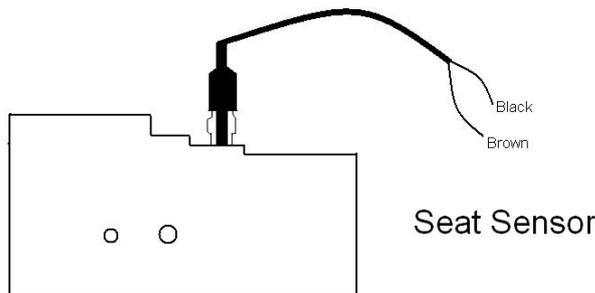


Seat Sensor

If the seat sensors are connected to the taximeter;

When passengers boarded the taxi, if taxi driver doesn't start the taximeter, the taximeter starts to record that trip as off the record. So, taximeter saves every non tariff trips (maximum record capacity is 900).

After counters of the taximeter are printed , if there are the records of the non tariff trips, these record is printed in continuation of the report.

## 15. PRINTER CONNECTION

The Printer Cable is connected to Printer and printer connector of the taximeter.  The printer gets power from the taximeter via printer cable.



M12 Taximeter Printer Cable
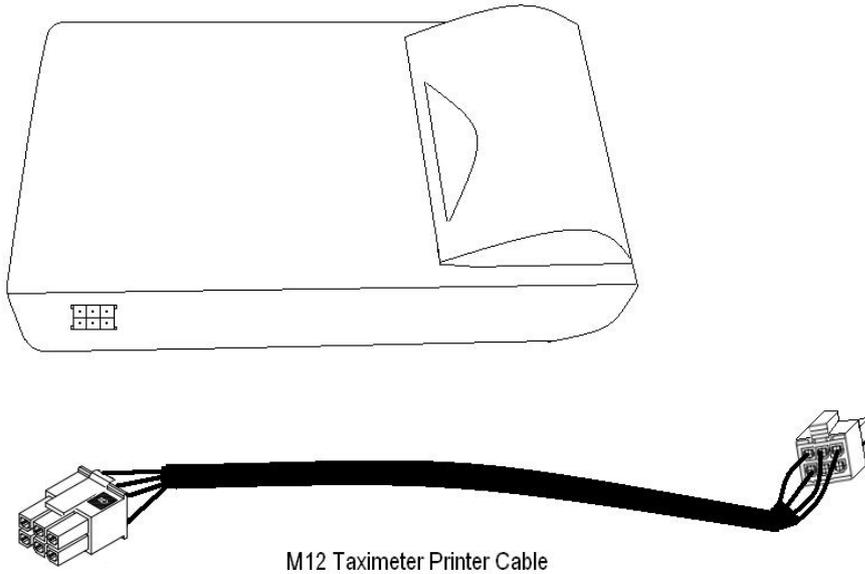
Both connector of the printer cable are same. One end of the cable connected to the taximeter and other end connected to the printer
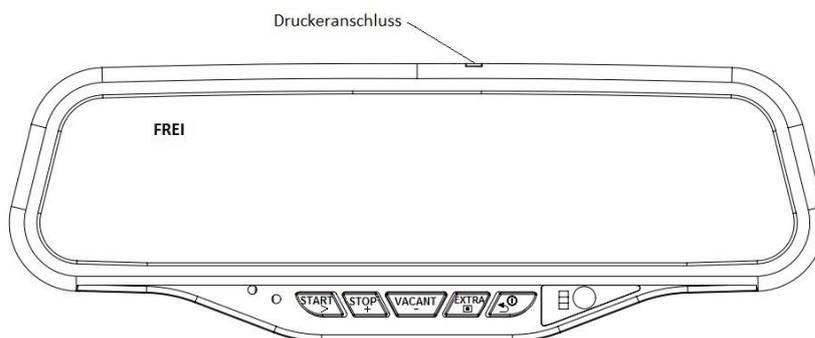


## 16. ROOF LAMP CONNECTION

The green cable of the power connector is connected to the positive pole of the roof lamp, other ground pole of the roof lamp is connected chassis of the vehicle.