SEMITRON®

TECHNOLOGIES

# TAXIMETER

# P7S



## OPERATION MANUAL

**English v1.00**

Conformed with quality management systems standards.

In accordance with 2014/32/EU

Conformed with the requirements of the applicable EC directives.

Conformed with directive 2002/96/EC on waste electrical and electronic equipment (WEEE).

IEC 61140 protection class II.

# *OPERATION MANUAL*

# *For P7S (LED Taximeter)*

**English v1.00**

SEMITRON TAXI


**Designed and manufactured by SEMITRON S.A.**

Headquarters:

Industrial Area of Sindos - GR 57022 Thessaloniki

tel: +30 2310.796.963 - fax: +30 2310.795.563

email: support@semitron.gr - http://www.semitron.gr

Branch:

46, Argous str. - Kolonos - GR 10441 - Athens

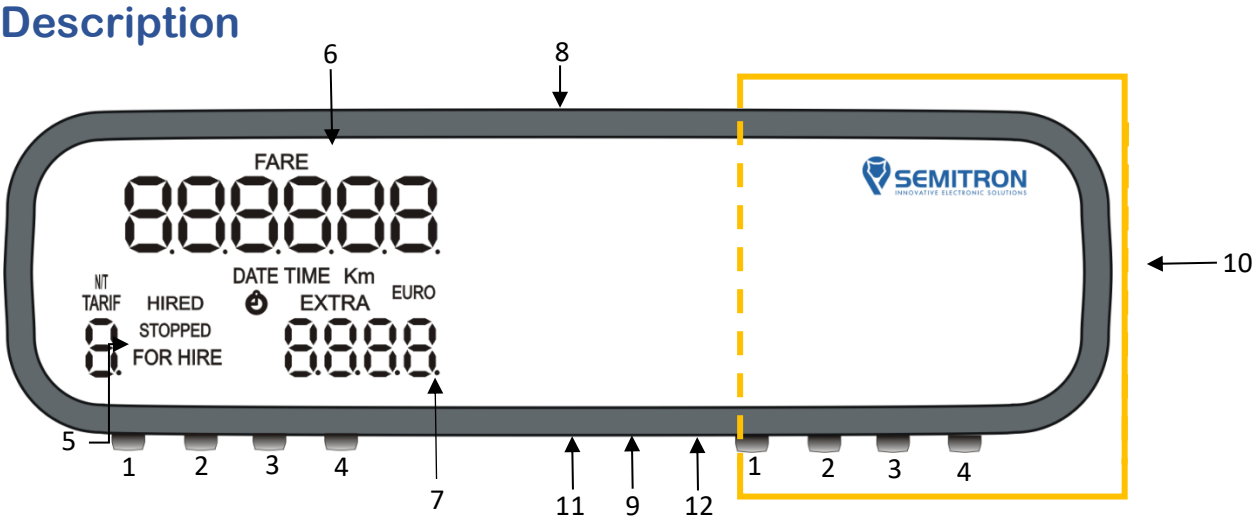
tel: +30 210.512.04.14 - fax:+30 210512.07.78

Greece

# Contents

1. Description ..... 4
2. Basic Operating Modes ..... 5
3. Basic Operations ..... 5
3.1 Start new shift ..... 5
3.2 Start New Hire ..... 5
3.3 Add Supplements during HIRED mode ..... 6
3.4 Remove Supplements during HIRED mode (Optional) ..... 6
3.5 From HIRED to STOPPED mode ..... 6
3.6 From STOPPED to HIRED mode (Optional) ..... 7
3.7 Add Supplements during STOPPED mode (Optional) ..... 7
3.8 Remove Supplements during STOPPED mode (Optional) ..... 7
3.9 Fare plus Supplements (Optional) ..... 7
3.10 End current Hire ..... 8
3.11 End current shift ..... 8
4. Additional Operations ..... 9
4.1 Show last hire Trip Cost (Optional) ..... 9
4.2 Change Brightness (Optional) ..... 9
4.3 Auxiliary Menu ..... 9
5. Notes ..... 17

# 1. Description




The previous image shows the taximeter P7S with two sets of **buttons**. The final position of the button set (either on the *left* or *right* in relation to the taximeter mirror*)* depends on the customer's choice or the country in which the device operates.

| | |
|---|---|
| **1** | Open/Close, Start hire |
| **2** | End hire |
| **3** | Control |
| **4** | Extra, Auxiliary menu |

*Table 2. Buttons Manual*

Buttons function changes according to the country that taximeter operates.

| | |
|---|---|
| **5** | Operational state or Tariff |
| **6** | Fare and Auxiliary operations |
| **7** | Extra, supplements and other info |

*Table 3. Display manual 1*

| | |
|---|---|
| **FOR HIRE**<br>**HIRED**<br>**STOPPED** | Operational states |
| **Km**<br>**EURO** | Distance and currency measurement units |
| | Charging based on Time value |
| **Tariff** | Charging Tariff |
| **N/T** | Night Tariff |

*Table 4. Display manual 2*

**Distance** and **Currency** measurement units (km, miles, euro, $, etc.) change according to the country in which taximeter operates.

| | |
|---|---|
| **8** | Power connector |
| **9** | Programming port |
| **10*** | Expansion Board |

*Table 5. P7S Connectors*

Where the Expansion Board is connected to taximeter.

| | |
|---|---|
| **11** | LED |
| **12** | USB |

*Table 6. P7S Extra Equippment*

# 2. Basic Operating Modes




### CLOSED (Low Consumption)

Taximeter is closed and does not display anything. If the vehicle moves, the taximeter will record this distance to the appropriate register.

### FOR HIRE

Taxi is available for hire and the roof lamp is ON. During this operational mode, the taximeter does not calculate any charges. Information about distance traveled without passenger is registered. Letter "**F**" and sign "**FOR HIRE**" are displayed.

### HIRED

The taximeter displays the total fare charged for the current trip and the sum of extra (if extra charge has been applied). The clock sign will be displayed when taximeter charges waiting time. Signs "**HIRED**", "**EURO**" and "**RATE**" are displayed.

### STOPPED

Charging by time stops. During this mode, the taximeter displays the total amount, fare + extra. Signs "**STOPPED**", "**FARE**", "**EURO**" and letter "**S**" are displayed.

# 3. Basic Operations

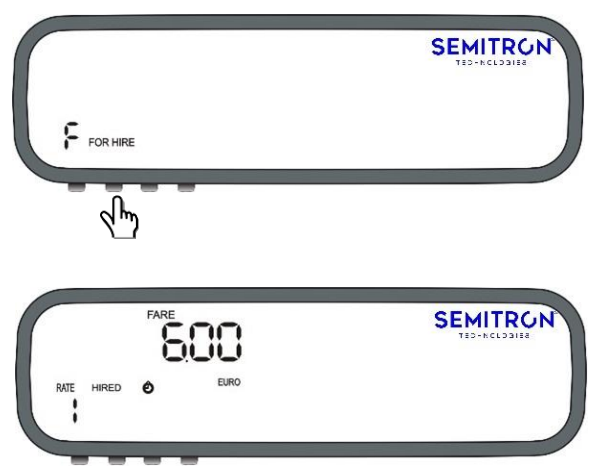
## 3.1 Start new shift




- During CLOSED mode, press the button ① to turn on the device.

A new shift has started.

## 3.2 Start New Hire

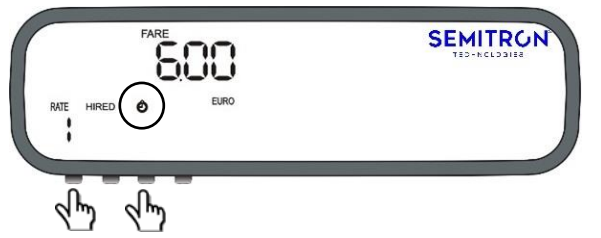



- During FOR HIRE mode, press the button ② once.

- A new hire has started.

## 3.3 Stop time-charge during “HIRED” mode

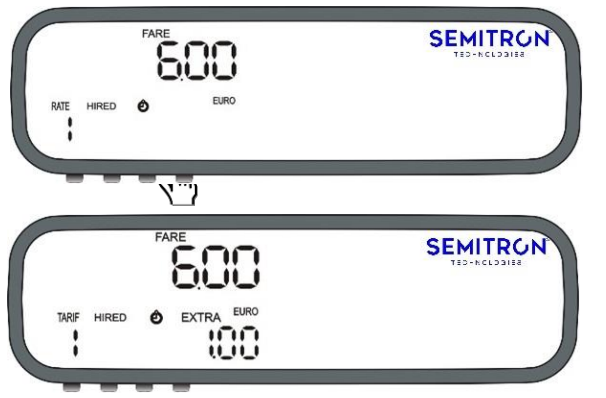
- A During “HIRED” mode hold button 3 and press button 1 to enable or disable the time - charge. If the time – charge is enabled the “Clock” sign will be on.




## 3.4 Add Supplements during HIRED mode

- During HIRED mode, press the button ④ consecutively to add a supplement amount.

Supplement has been added to the relative position of the display.




## 3.5 Remove Supplements during HIRED mode (Optional)

- During HIRED mode, hold the button ③ and press the button ④ to delete the added supplement amount.

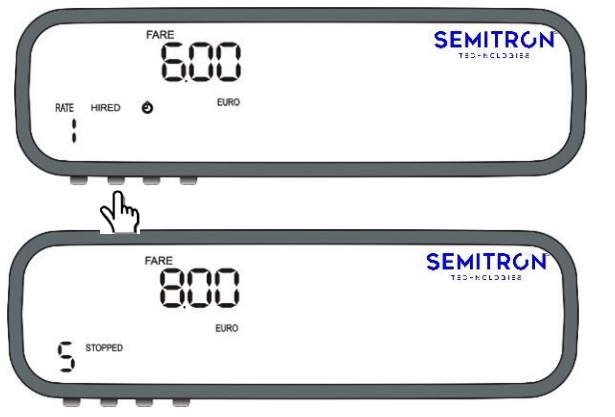
Supplements have been deleted.




## 3.6 From HIRED to STOPPED mode

- During HIRED mode, press the button ②.

Taximeter enters in STOPPED mode.



## 3.7 From STOPPED to HIRED mode (Optional)

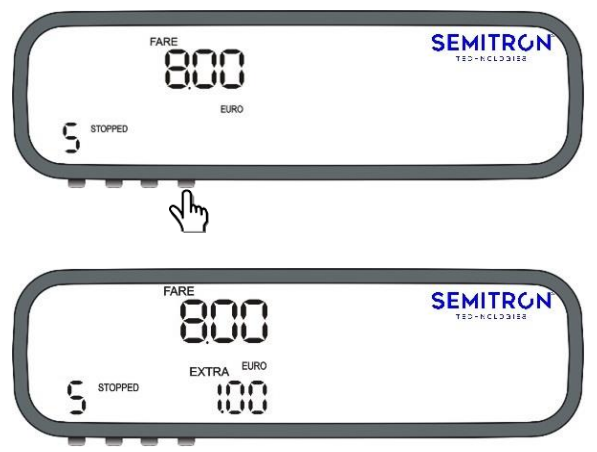
- During STOPPED mode, press the button ② to return to HIRED mode.




## 3.8 Add Supplements during STOPPED mode (Optional)

- During STOPPED mode, press the button ④ consecutively to add supplements.

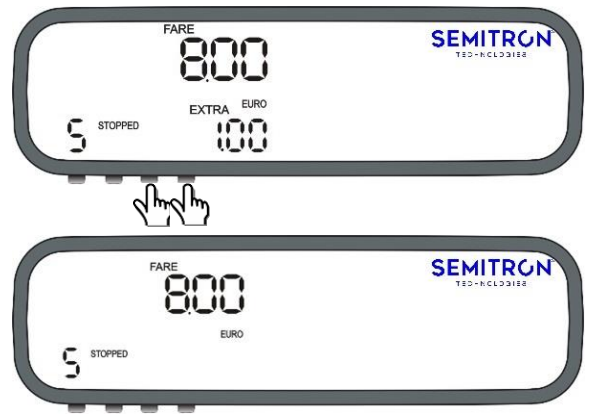
Supplements will be added to the corresponding display section.




## 3.9 Remove Supplements during STOPPED mode (Optional)

- During STOPPED mode hold the button ③ and press the button ④ to delete the added supplements.

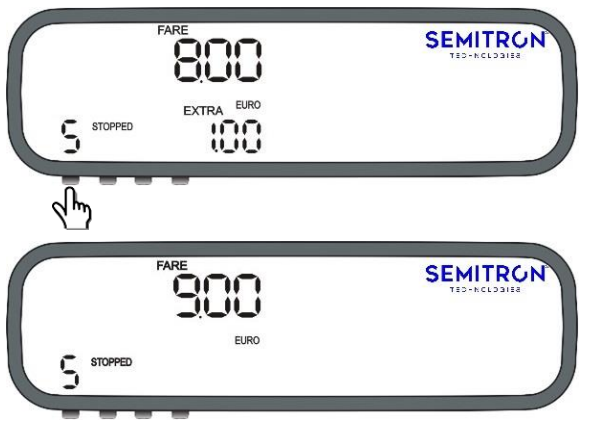
Supplements will be deleted.




## 3.10 Fare plus Supplements (Optional)

- During STOPPED mode, press the button ① once.

Taximeter displays Fare + Supplements for 30 seconds.



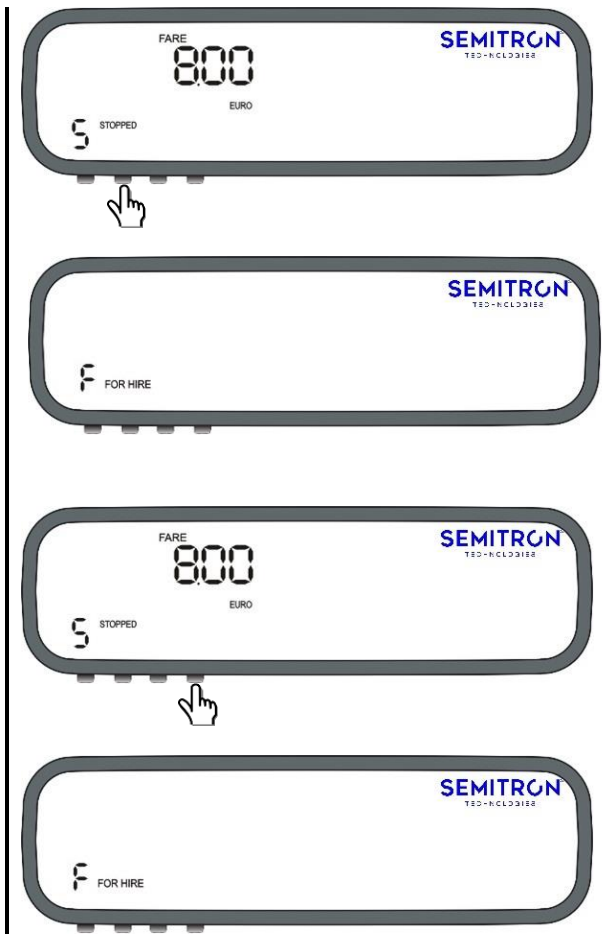
## 3.11 End current Hire

**Trip Report Print**

- During STOPPED mode, press the button ② once. Taximeter enters in FOR HIRE mode while a printout trip report is produced.

**No print report**

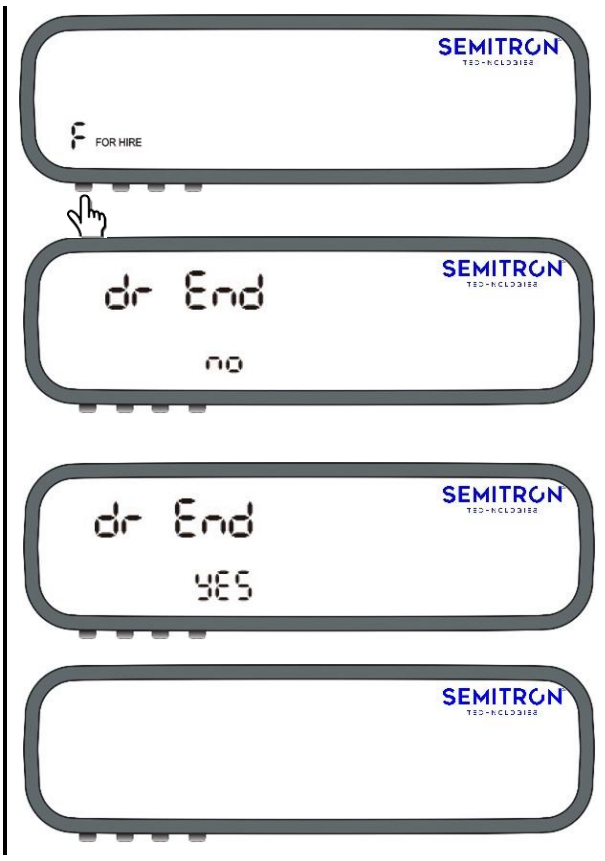
- During STOPPED mode, press the button ④ once. Taximeter switches to FOR HIRE mode.




## 3.12 End current shift

- During FOR HIRE mode, press the button ①
- Press button 2 to select yes/no.
- Press button 1 to end current shift.

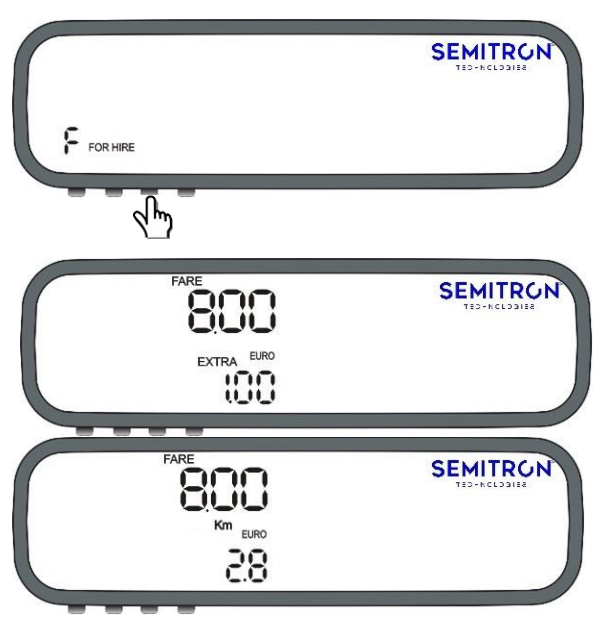
The shift is closed.



# 4. Additional Operations

## 4.1 Show last hire Trip Cost (Optional)

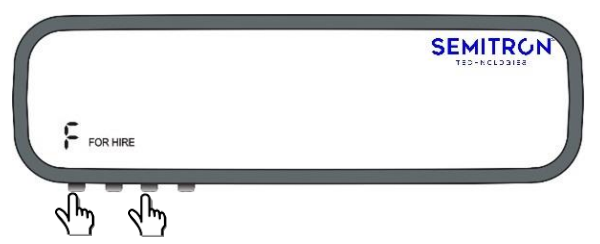
- During FOR HIRE mode, press the button ③.




**Fare and Extra** of the last hire will be displayed and after three seconds, the **distance** (km).
*If the current shift has no hire yet, then nothing will be displayed.*

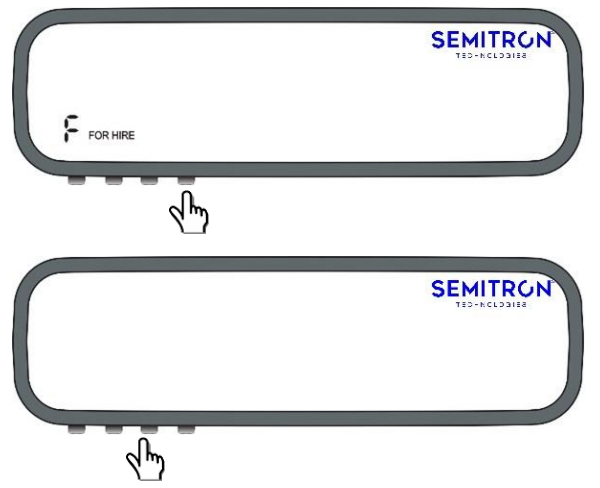
## 4.2 Change Brightness (Optional)

- During FOR HIRE mode hold the button ③ and press the button ① to change the brightness.




## 4.3 Auxiliary Menu

- During FOR HIRE or CLOSED mode, press the button ④ successively to navigate the Auxiliary menu.




The Auxiliary menu comprises the next options:

1. **Date**
2. **Time**
3. **Daytotals**
4. **Totals**
5. **Report**
6. **Option**
7. **Calendar**
8. **Info**
9. **Boot Logger**

- Press the button ③ to navigate the submenu of a selected auxiliary menu option *(not possible in case of **Date** and **Time** options)*
- Press the button ① anytime, to reset the taximeter to its initial mode (CLOSED or FOR HIRE)
- If no button is pressed for more than 10 seconds, the taximeter automatically returns to its initial mode.

### *Date*

- During CLOSED or FOR HIRE mode, press the button ④ *once* and current **Date** is displayed.



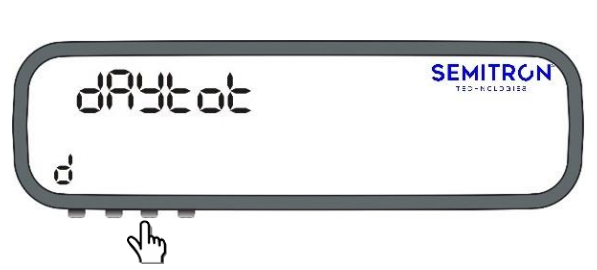

### *Time*

- During CLOSED or FOR HIRE mode, press the button ④ *two times* and current **Time** is displayed.




### *Daytotals*

- During CLOSED or FOR HIRE mode, press the button ④ *three times* until the "**Daytot"** message is displayed.
- Press the button ③ successively to navigate the sub-menu of Daytotals.




'Daytot' includes information related to the <u>current *shift*</u>:

- Distance traveled
- Initial fees
- Shift duration
- Number of trips

**<u>DayTotals are displayed with 8 digits.</u>**

Specifically, the data of Daytotals in the order of their appearance:

| | |
|---|---|
| **dR Id** | Driver id (optional) |
| **ShiF** | Shift number |
| **1** | Total distance traveled in shift (For Hire, Hired and Stopped mode) (Km) |
| **2** | Distance traveled (Hired and Stopped mode) (Km) |
| **3** | Distance traveled with passenger (For Hire) |
| **4** | Time period from the start of the shift (hh:mm) |
| **5** | Number of trips in current shift |
| **6** | Total cash income in shift (€) |
| **7** | Total tax from cash income in shift (€) |
| **8** | Total credit income in shift (€) |
| **9** | Total tax from credit income in shift (€) |
| **10** | Total income in shift without extra (cash + credit) (€) |
| **11** | Total extra (cash + credit) (€) |
| **12** | Total income (fare + extra) (€) |
| **13** | Total tax in shift (cash + credit) (€) |

### *Totals*

- During CLOSED or FOR HIRE mode, press the button ④ *four times* until the "**Totals"** message is displayed.
- Press the button ③ successively to navigate the sub-menu of Totals.




"Totals" option includes information related to <u>all shifts *of taximeter*</u>:

- Total distance traveled
- Total income
- Total number of trips

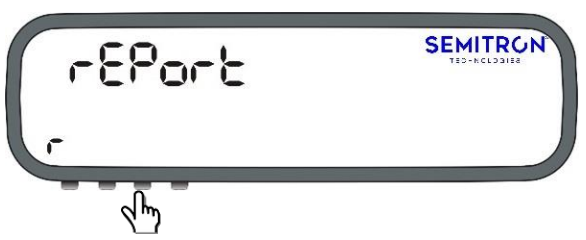
**Totalizers are displayed with 8 digits.**

Specifically, the data of Totals in the order of their appearance:

| | |
|---|---|
| **1** | Total distance traveled (Closed + For Hire + Hired + Stopped) |
| **2** | Total distance traveled (For Hire + Hired + Stopped) |
| **3** | Total distance traveled (Hired) |
| **4** | Total distance traveled with passenger (Hired + Stopped) |
| **5** | Total distance traveled with passenger in Closed or For Hire mode |
| **6** | Total trips number |
| **7** | Total cash income (fare + extra) |
| **8** | Total tax from cash income |
| **9** | Total credit income (fare + extra) |
| **10** | Total tax from credit income |
| **11** | Total fare (cash + credit) |
| **12** | Total extra (cash + credit) |
| **13** | Total income (cash + credit + extra) |
| **14** | Total tax (cash + credit) |

## *Report*

- During CLOSED or FOR HIRE mode, press the button ④ five times until Report is displayed.
- Press button ③ successively to navigate the submenu of Report.

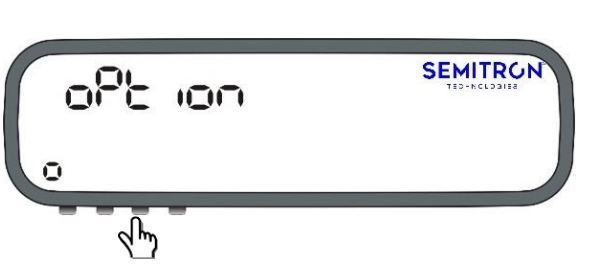



"Report" provides the capability of printing one of the following reports.

| | |
|---|---|
| **rEPort 0** | Report description |
| **rEPort 1** | Partial Shift report |
| **rEPort 2** | Shifts at last 48 hours |
| **rEPort 3** | Last two shifts |
| **rEPort 4** | General totals |
| **rEPort 5** | Last six receipts |
| **rEPort 6** | Last receipt |
| **rEPort 7** | Taximeter control |
| **rEPort 8** | i-button |
| **rEPort 9** | Last x shifts |
| **rEPort 10** | Reserved |
| **rEPort 11** | Reserved |
| **rEPort 12** | Reserved |
| **rEPort13** | Reserved |
| **rEPort14** | Reserved |
| **rEPort15** | Reserved |
| **rEPort16** | Reserved |

## *Option*

- During CLOSED or FOR HIRE mode, press the button ④ *six times* until the '**Option'** message is shown.
- Press the button ③ successively to navigate the sub-menu of Options.




"Option" provides the capabilities:

- Beeper activation/deactivation
- Test procedure for taximeter
- Test procedure for printer
- Pulse counter

| | |
|---|---|
| **bEEP** | Enable/Disable beeper |
| **tESt** | Taximeter test |
| **t-Prtr** | Printer test |
| **PuLS** | Displays the incoming pulses |

*Table 21. Options*

## Beeper

**“Beeper”** option appears first when entering the Options submenu.

- While the message ‘**Option’** is displayed, press the button ③ *once*.




**Deactivate beeper**

- If the message “bEEP no” is displayed, press the button ② to *deactivate* the beeper.




⚠

- If the message “**bEEP YES**” is displayed, press the button ② to switch the message to “**bEEP no**”
- Then, press the button ①





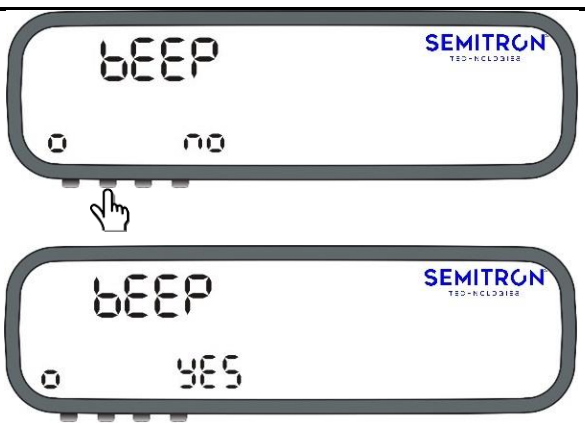


**Activate beeper**

- If the message “**bEEP YES**” is displayed, press the button ① to activate the beeper.




- If the message “**bEEP no**” is displayed, press the button ② to switch the message to “**bEEP YES**”
- Then, press the button ①

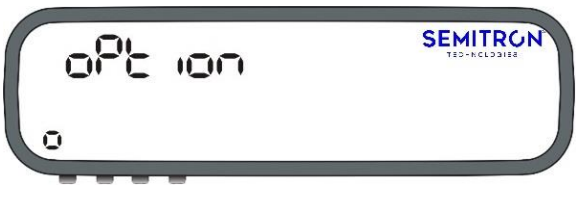



## Test

**Test** operation allows testing the taximeter P7S, using the test connector to determine the time and distance measurement from an external source.

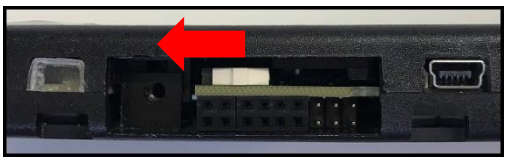
To enable the Test function the next steps must be done:

- While the message “**Option**” is displayed, press the button ③ *twice*.






- Unseal the programming port of the taximeter and **set the programming switch to Program Position.** *(Left position)*



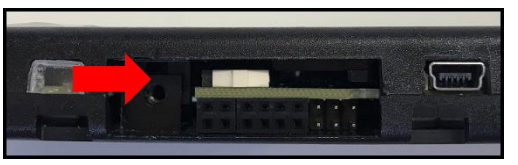



- Press the button ② and the message "**tESt YES**" will be displayed.

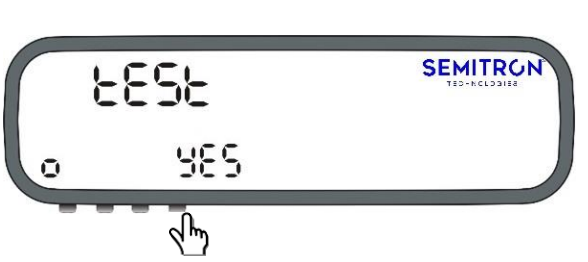



⚠ If the switch of programming port is not set to Program position, the message "**Error--**" appears.



- Set the switch to Normal position and press the button ① to reset the taximeter to its initial mode, **FOR HIRE** or **CLOSED in Test mode**.



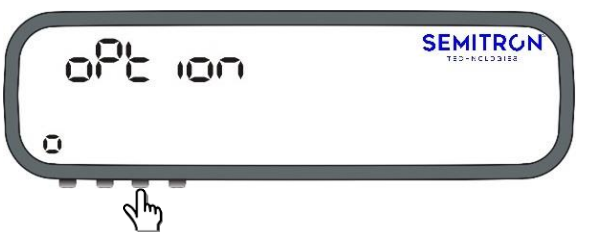

**Taximeter can exit the test operation only after a trip has been completed.**

## Test printer

**Test Printer** allows testing the printer operation.

To enable the function the next steps must be done:

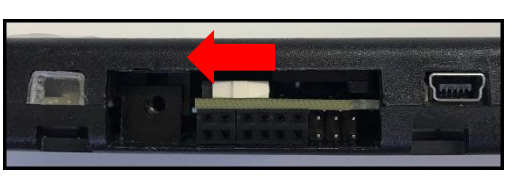
- While the message "**Option**" is displayed, press the button ③ *three times*.







- Unseal the programming port of the taximeter and **set the programming switch to Program Position.** *(Left position)*



➢ Press the button ② and the message "**t-Prtr YES**" will be displayed.

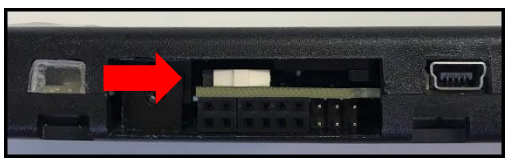






⚠ If the switch of programming port is not set to Program position, the message "**Error--**" appears.



➢ Set the switch to Normal position and press the button ① to reset the taximeter to its initial mode, **FOR HIRE** or **CLOSED in Printer Test mode**.

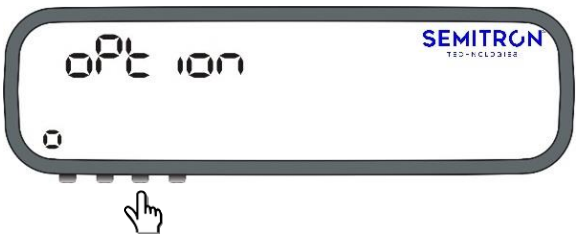



⚠ **Taximeter can exit the printer test operation only after a trip has been completed.**

## Pulse *(pulse distance sensor/can bus)*

*The taximeter must receive pulses in order to have the pulse operation activated.*

➢ Press the button ③ four *times* while the message "**Option**" is displayed.




➢ Press the button ② to reset the pulse counter.




*In case of CAN bus, the message "**pls447**" appears on display*

## *Calendar*

"**Calend**" provides the capability of adjusting the current time ±2 minutes per week.

Time can be adjusted only **ONCE** per week.

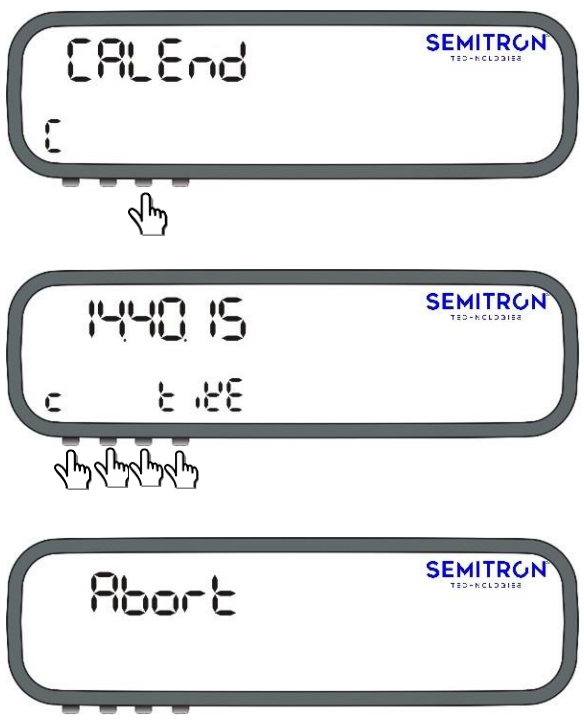
- While taximeter is in CLOSED or FOR HIRE mode, press the button ④ *seven times* until the message "**Calend"** is shown.
- Press the button ③ to enable the adjustment of time

Taximeter displays the time (hh:mm:ss)

- Press button ① to increase minutes
- Press button ② to decrease minutes
- Press button ③ to cancel the procedure
- Press button ④ to save the adjustment

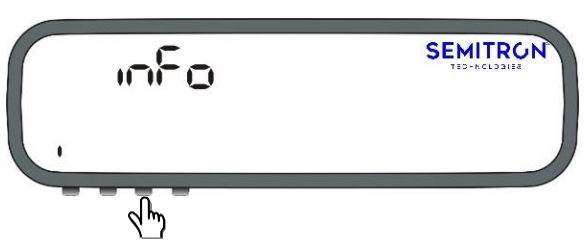
A new adjustment is available the next week.

*In case of an attempt to adjust the time before seven days have elapsed since the last setting, the message "**Abort**" appears.*




## *Info*

- While the taximeter is in CLOSED or FOR HIRE mode, press the button ④ *eight times* until the message "**Info**" is shown.
- Press the button ③ successively to navigate the submenu of Info.




The contents of "**Info**" in the order of their appearance:

| | |
|---|---|
| **8888** | Test display unit. All signs and digits turn on for 10 seconds |
| **iVer** | Taximeter's firmware version |
| **Sn** | Taximeter's serial number |
| **tCrC** | Tariffs CRC |
| **d-02** | Activation date of the Future Tariffs (if it is programmed) |
| **tCrC 2** | Tariffs CRC of the Future tariffs (if it is programmed) |
| **fCrC** | Firmware CRC (manufacturer) |
| **cCrC** | Firmware CRC (NMI approved) |
| **rCRC** | Printer CRC |
| **rSt** | Power supply disconnections |
| **Ldat** | Leasing expired date |
| **LPd** | Last programming date |
| **Pcnt** | Programming counter (number of times that parameters have been changed) |
| **Ch K** | Change K counter (number of times that constant K has been changed) |
| **K** | Taxi's constant K (pulses/km or pulses/Mile) |
| **EHTr** | Step of Extra |
| **nEht** | Maximum Extra |
| **x-xx** | Tariff parameters |

The following table contains the charge parameters analytically, for the activated tariffs in the way they are presented:

| | |
|---|---|
| **x-01** | Initial fee |
| **x-02** | Initial fee 1 |
| **x-03** | Distance value |
| **x-04** | Distance per distance value |
| **x-05** | Time value |
| **x-06** | Initial distance |
| **x-07** | Initial distance 1 |
| **x-08** | Initial time |
| **x-09** | Monetary step |
| **x-10** | Maximum extra per tariff |
| **x-11** | Extra step per tariff |

## *Boot Logger (Event Logger)*

- While the taximeter is in CLOSED or FOR HIRE mode, press the button ④ *nine times* until the message "**logger boot**" is shown.
- Press the button ③ successively to navigate the records of logger (list of firmware versions).
- Press the button ② successively to navigate the items of the selected record.




| | |
|---|---|
| **01** | Date |
| **02** | Time |
| **03** | cCRC |
| **04** | fCRC |
| **05** | Attempts |
| **06** | HASP ID |

*"Attempts" is the number of tries until a firmware update process succeeds.*

# 5. Notes

SEMITRON®
TAXI