

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5641-10

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***California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices***

For:

Taximeter
Digital Electronic
Point-of-Sale (POS) System
Multi-Rate
Model: VTS 100 System

Submitted by:

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Standard Features and Options

- **MX870 MDT (Mobil Data Terminal) System** - Full screen peripheral interface devices that combine color digital video picture and sound with a secure point of sale payment capability. The driver facing MDT is the Driver Information Monitor (DIM) and the customer facing MDT is the Passenger Information Monitor (PIM).
- **Pulsar Model 2030R taximeter** (CC 03-057A1) interfaced through modified firmware with MX870 Mobil Data Terminal (MDT) System
 - Single, multi-rate, flat rate - (maximum 5 rates), computes a fare based on time, distance or a combination
 - Rate 5 is a negotiated flat rate
 - Capacity of displays: fare \$999.99, extras \$99.99 and rate, a single digit

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: November 1, 2010



Edmund E. Williams, Director

**Verifone Transportation System
Taximeter POS System
Model: VTS100**

Application: The POS system is used with a modified Pulsar 2030R taximeter for use in vehicles that charge for hire at a predetermined rate, negotiated flat rate or rates based upon a combination of time and distance from the taximeter.

Programming: The VTS 100 system consists of 3 programmable components

- Pulsar 2030R Taximeter (see Certificate of Conformance 03-057A1)
- DIM (MX870 MDT)
- PIM (MX870 MDT)

Identification: The identification information is permanently marked on a self-destructive security label on the left side of the Pulsar 2030R Taximeter.

Sealing: The sealing provisions are necessary to provide sufficient protection against metrological parameter changes. The following component sealing provisions are listed below:

- MX870 MDT - no sealing provisions
- Pulsar 2030R Taximeter - see sealing provisions on Certificate of Conformance 03-057A1

Operation: Once logged in, the operator is presented with a MENU screen that contains eight buttons. The drivers ID number, name, cab number, driver's time left and company/fleet name are displayed on the bottom of the screen.

DISPLAY/SCREEN MAIN MENU (First Page): The 8 MAIN MENU buttons on the touch screen display are:

1. **FARE:** By pressing this button, the operator has access to a series of functions that allow him to interact with the taximeter. These options are:
 - **SWITCH RATE:** This option can be programmed to allow the operator to switch meter fares. This function is currently not implemented and the default status is OFF.
 - **PRINT LAST RECEIPT:** Allows the operator to send to an available printer a copy of the last trip completed on the taximeter. This option is only available while the meter is in FOR HIRE/VACANT mode. Once engaged (HIRED) this functionality is disabled.
 - **ADVANCE PAYMENT:** Allows the operator to engage the meter on a prearranged fare amount utilizing one of the FLAT RATE FARES available on the meter. This functionality is useful to process advance payments, negotiated rates and non standard flat rates. This option is only available while the meter is in FOR HIRE/VACANT mode. Once engaged (HIRED) this functionality is disabled.
 - **RESET DAILY:** This function is not present in all systems.
 - **TOLLS:** Allows the operator to input a TOLL amount in dollars and cents through the screen keypad. The input amount is then sent to the taximeter and it is shown in the taximeter display in the EXTRA section. The TOLLS amount is identified and itemized in the taxi ride receipt. This option is available while the meter is in HIRED mode only.
 - **EXTRA:** Allows the operator to input an EXTRA amount in dollars and cents through the screen keypad. The input amount is then sent to the taximeter and it is shown in the taximeter display in the EXTRA section. The EXTRAS amount is identified and itemized in the taxi ride receipt. This option is available while the meter is in HIRED mode only.
 - **CLEAR EXTRA:** Allows the operator to delete any previous EXTRA value input from the MDT keypad. EXTRAS values input from the taximeter dedicated EXTRA button (if available) cannot be cleared using this functionality. This option is available while the meter is in HIRED mode only.
 - **NEXT:** Allows the operator to switch to a second page where more functions are available.
 - **RECALL LAST FARE:** Allows the operator to bring back to the meter the fare information from the immediate last trip processed. Once selected, the meter will not advance. This function is available on VACANT/FOR HIRE mode only.

**Verifone Transportation System
Taximeter POS System
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Operation: DISPLAY/SCREEN MAIN MENU (First Page) (continued):

- **VOID LAST TRANSACTION:** Allows the operator to VOID or CHARGE BACK the last credit card processed through the MDT. In order to accomplish this, two conditions must be met.
 - a. The credit card paid fare that is to be voided, must be the last fare processed on the taximeter.
 - b. A credit card paid fare can only be voided during the first 15 minutes after the transaction has taken place. If any of these conditions are not met the operator will be presented with a notification indicating the transaction cannot be voided.
- **NEXT:** Once pressed the operator will return to the previous page.

Note: The following first and second page buttons have no metrological features that require the use of security seals. Provisions for sealing metrological parameters are provided by the taximeter.

2. **MAIL**
3. **NAV**
4. **ZONE INFO**
5. **TRIP LOG**
6. **TRIP INFO**
7. **TEMP OFF DUTY**
8. **NEXT PAGE:** Allows the operator to switch to a second menu page.

DISPLAY/SCREEN MAIN MENU (Second Page): The 7 **MAIN MENU** buttons on the touch screen display are:

1. **FLIGHT ARRIVAL INFO**
2. **PAYMENTS & BALANCE**
3. **SELF TRAINING**
4. **NEXT PAGE:** Allows the operator to switch back to the first menu page.
5. **SYS CONFIG**
6. **LOG OFF**
7. **STICKY ZONE**

PAYMENT MODE: Once the operator places the taximeter in TIME OFF mode, the DIM and the PIM display the following itemized components on a touch screen panel:

1. **FARE:** Fare amount read from the taximeter.
2. **TOLLS:** Previously input TOLLS amount. These amounts were input from the MDT interface or manually entered from the Pulsar 2030R.
3. **EXTRAS:** Previously input EXTRA amounts. These amounts were inputs from the MDT or manually entered from the Pulsar 2030R.
4. **TIPS:** Only for Credit Card payments, initially displayed with a value of zero (0).
5. **CASH:** The cash button allows the operator to close the trip as a CASH trip. Once pressed the MDT is programmed to give the operator the option to print a CASH receipt with detailed data regarding the trip.
6. **CREDIT:** The Credit button allows the operator to process credit cards as a valid payment option. Once selected, the operator will notice:
 - a. An ADD and CLEAR button is displayed to the right of the TIP value, if ADD is pressed, a numerical keypad is displayed so the customer or the operator can input in dollars and cents an authorized TIP amount. If CLEAR is pressed, the tip previously inputted TIP is cleared to zero.
 - b. A display message ask the customer to swipe the credit card to be used through the PIM built in magnetic card reader or the driver can swipe the credit card to be used through the DIM built in magnetic card reader.
 - c. Once the credit card has been successfully read, a SEND button will appear on the DIM display which once pressed by the operator will send the credit card info and fare value for processing. A transaction result will be then displayed on the screen. If approved, a printed receipt plus a copy for the passenger will be generated by the available printer.

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Test Conditions: Model VTS 100 POS taximeter system was submitted for laboratory evaluation. The emphasis was on device design, operation and receipt format accuracy. A modified Pulsar 2030R taximeter was initially connected to an electronic pulse generating simulator in the Division of Measurement Standards' laboratory. The VTS 100 POS system was interfaced with the 2030R taximeter. The VTS 100 POS system was tested for agreement of indication between the DIM, PIM and the taximeter.

Conclusion: The results of the evaluation and the review of information provided by the manufacturer indicate the device complies with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2010 Edition

Tested By: Charlie Nelson (CA), Van Thompson (CA)

VTS 100 System

