NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For: Taximeter Digital Electronic Model: TaxiController and Taximeter-GPS Version: TaxiController Software Version 5.3.0.0 or higher Taximeter-GPS Software Version 1.1.0.0 or higher	**Submitted By:** Blue Lion Solutions 15, rue Charles de Gaulle 8322 Olm, Luxembourg Tel: +352-621 354 854 Contact: Claude Roeltgen Email: contact@taximeter-gps.com. Web site: https://taximeter-gps.com

Standard Features and Options

- Single or Multi-Rate Taximeter with an unlimited number of rates
- Rate Name is displayed on the receipt
- Summing of Fares and Extras
- Time-off mode
- Distance-off mode
- Display capacities: FARE $9999.99, EXTRAS $999.99, TOLLS $999.99, TOTAL $9999.99
- Programmable Rate, programmable to change by Time of Day, Distance Traveled, or Fare Amount
- Electronic Receipt format
- Bluetooth OBD-II Connection for Distance Calculation
- GPS for time and distance calculations
- Android Mobile device compatible (tablet, phone)
- Cellular connection is optional when not logged into the app and mandatory if logged into the app.

Minimum System Requirements:

- Android Version 11 or higher
- Mobile Device with cellular connection for GPS and Bluetooth capability

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*. Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Kevin Schnepp
Chair, NCWM, Inc.

Marc Paquette
Chair, NTEP Committee
Issued: November 21, 2025

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Taximeter / TaxiController and Taximeter-GPS

Application: TaxiController and Taximeter-GPS is an app that is downloaded onto an appropriate Android-based device (smartphone or tablet) and then becomes a taximeter. The taximeter calculates and indicates a fare at a predetermined rate on the basis of time, distance, or a combination of time and distance. The distance measurement is achieved using data signals generated by the vehicle and transmitted via an OBD-II connection GPS signal or both. The taximeter can be used with single or multi-rate structures. The taximeter may be programmed to charge for extras or require manual input automatically. Where permitted by the local governing authority, this taximeter has the capability to be programmed for an unlimited number of standard rates, including flat rates, negotiated rate input, and automatic rate changes based on time/date, monetary amount or distance traveled.

Identification: The device identification is continuously displayed in the upper left corner of the screen when the app is active.

Sealing: The TaxiController and Taximeter-GPS meter are paired via Bluetooth to the OBD-II reader and utilize a GPS signal. Bluetooth and GPS do not require a provision for sealing, as no metrological features can be accessed. As soon as the OBD-II device is paired to the app, the system is locked, preventing usage with any other components or vehicles.

Operation: The TaxiController and Taximeter-GPS are operated on a touchscreen device. The taximeter is started by touching the green "For Hire" button, which changes to a red "Hired" button at the bottom of the display screen. The meter utilizes the procedure in reverse to stop the meter. The screen displays FARE, EXTRAS, TOLLS, and TOTAL, and icons for TIME OFF and DISTANCE OFF. Tapping these icons will turn the distance measurement and time measurement features on/off. "TIME OFF", DISTANCE OFF" will appear in red when activated. Adding "EXTRAS" and "TOLLS" is accomplished by tapping the EXTRAS and TOLLS buttons and then entering an amount.

Test Conditions: This certificate supersedes Certificate of Conformance Number 24-053 and was issued without additional testing to reactivate Certificate of Conformance 24-053 without lapse. Previous test conditions are listed below for reference.

Certificate of Conformance Number 24-053: The TaxiController software version 5.3.0.0 and Taximeter-GPS software version 1.1.0.0 were downloaded onto a Samsung Galaxy Tab A7 Lite tablet for this evaluation. Multiple tests were performed to determine compliance and accuracy with respect to time, distance, and power interruption. Multiple tests were performed to ensure the accuracy of the distance and time measurement. All displayed information on the taximeter's display was evaluated and measured to confirm compliance with NIST HB 44 requirements. Tests were conducted to determine compliance and accuracy of optional features. The receipt format and content were evaluated.

Evaluated By: J. Gibson (NCWM) 24-053 (CN 10969); G. Gholston (NCWM) 24-053A1 (CN 11617)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2024 Edition. *NCWM Publication 14: Measuring Devices*, 2024 Edition.

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

Information Reviewed By: D. Flocken (NCWM) 24-053; J. Gibson (NCWM) 24-053A1

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Example of device