

California Type Evaluation Program
Certificate of Approval
Weighing and Measuring Devices

For:

Electric Vehicle Fueling Systems (EVFS)
AC Only

Models: UW19xyza, UW12-xxxxxyyyyyyy

Refer to Model designation table

Submitted By:

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Standard Features and Options

Standard Features:

- Alternating Current (AC) system in kilowatt-hour (kWh)
- Accuracy Class 2.0 for AC with 1.0% accuracy tolerance or better
- Maximum Rate of Energy Transfer: 19.2 kW AC
- Maximum Current Deliverable (MCD): 80 Amperes (A)
- Minimum Measured Quantity (MMQ): 0.2 kWh
- Voltage Rating: 208/240 volts (V)
- Model UW19x0xx & UW12-xxxxxyyyyyyy Temperature Rating: -35°C to 55°C (-31°F to 131°F)
- Model UW19xBxx & UW19xJxx Temperature Rating: -40°C to 55°C (-40°F to 131°F)
- Meter Software Version number: V31.00 or higher that increments sequentially and follows the format "VXX.XX"
- 0.0001 kWh registration display and non-resettable totalizer
- Single port charger with J1772 or North American Charging Standard (NACS) connectors
- Supports ISO 15118 authentication (Plug and Charge)
- Supports RFID Activation, Mobile App Activation

Options:

- Wall and column mount configurations
- Parking/Idle Fees
- Includes 4G LTE and Wi-Fi communication options

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.



Kevin Schnepf, Director
Effective Date: April 29, 2025

Autel US Inc. dba Autel Digital Power Co., Ltd.

Electric Vehicle Fueling System (EVFS)/ Models: UW19xyza & UW12-xxxxxxxxxxxx

Application: For use as an Electric Vehicle Fueling System (EVFS) in commercial applications for energy dispensing in kWh as well as time-based fees. EVFS are also known as Electric Vehicle Supply Equipment (EVSE).

Identification: The Autel EVFS identification (ID) label is located on the right side of the charger installed so that it is accessible to view (**Figure 1**). The example label can be found in **Figure 2**. The software version and non-resettable totalizer value can be found by tapping on the top right corner of the idle screen to select the stacked coins (**Figure 3**). Tap twice on the clock indication in the top left (**Figure 4**) then select “Device Information” (**Figure 5**). The software version will populate under the Software Version tab (**Figure 6**) and the non-resettable totalizer value will populate under the “parameters” tab (**Figure 7**). The non-resettable totalizer value and software version can be located within the hidden menu through the mobile app (**Figures 14 through 17**).

**Figure 1.** ID label location example**Figure 2.** ID label example**Model Identification Table**

Model: UW19xyza, example
UW19L0KJ

Base Name UW	Power Rating 19	Cable Length x	Type y	Non-metrologically significant code za
UW	19 = 80A rating	C= 6 meter cable	0= Screen included	Any alphanumeric value
		L= 7.5 meter cable	B= No screen	
			J= No screen with 4G	

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Continued Model identification table: Model UW12-xxxxxyyyyyyy, example UW12-J0312CBC213

Base Name UW	Power Rating 12-	Connector Type 1 X	Connector Type 2 X	Cable Length: X	Screen type y	Non-metrologically significant code yyyyyyy
UW	12- = 50A rating	J= J1772 Type 1	0= Single port device	3= 3 meters	1= non-touch screen	Any alphanumeric value
		N= NACS		5= 5 meters	5= 5 inch LCD	
				6= 6 meters	7= 7 inch LCD	
				7= 7.5 meters	8= 8 inch LCD	
					0= non screen	



Figure 3. Tap the stacked coins icon in the top right of the screen

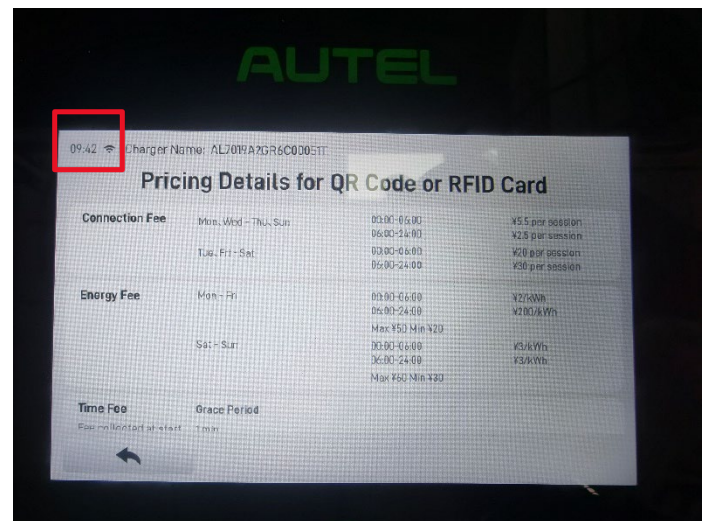


Figure 4. Double tap "time" in the top left of the screen.

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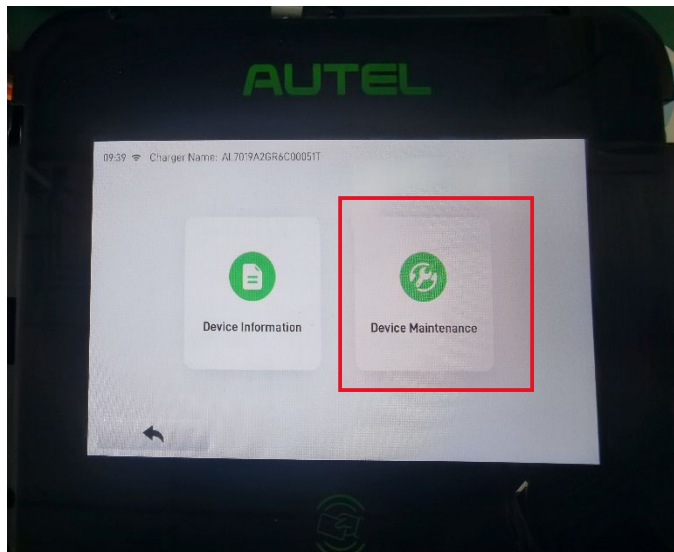


Figure 5. Tap "Device Maintenance"

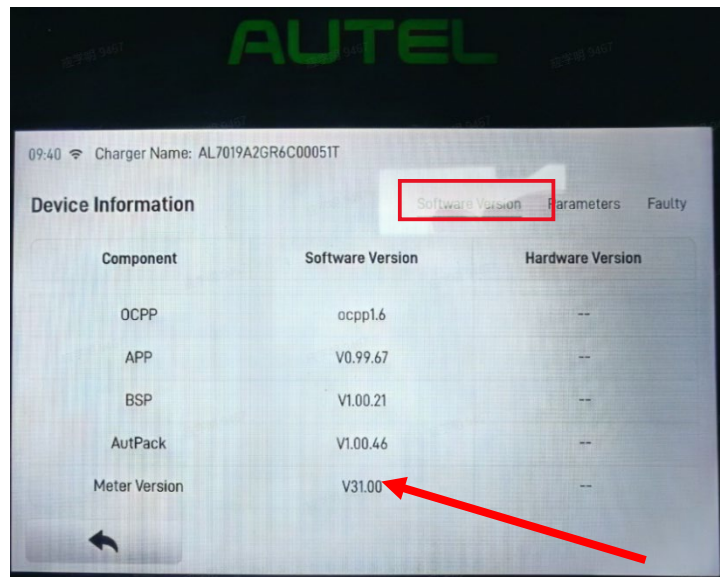


Figure 6. Software version example

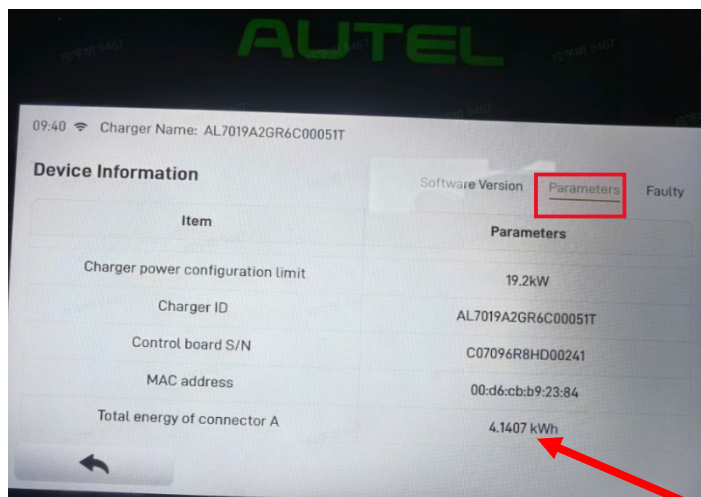


Figure 7. Device information screen with non-resettable totalizer under parameters

Sealing: The Autel EVFS is a Category 3 device with an event log to provide an event counter, Parameter ID, date and time of the change, and the new value of the parameter. To access the event logger on devices equipped with a touch screen select the "Coin Stack" located in the upper right-hand corner of the idle screen (**Figure 8**). Double tap the clock in the upper left-hand corner of the pricing details screen (**Figure 9**). Select "Device Maintenance" (**Figure 10**) and input the last 6 digits of the charger's serial number as the password (**Figure 11**). By navigating the charger info tab (**Figure 12**) users can export the event log via email (**Figure 13**).

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To access the meter event logger on units equipped with a touch screen:

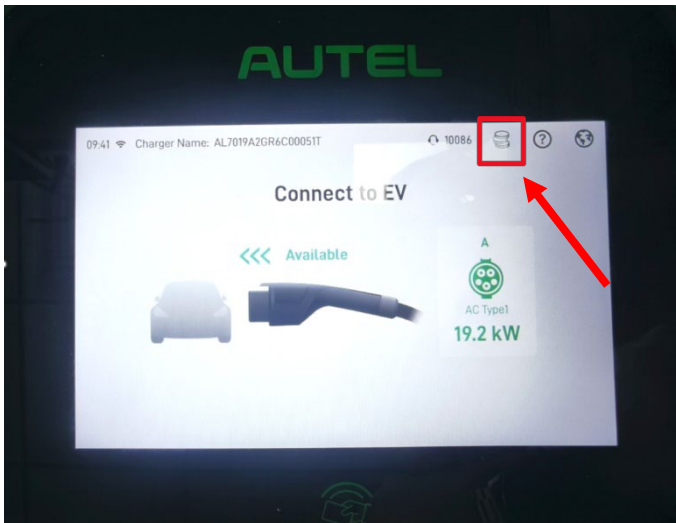


Figure 8. Tap the stacked coins icon in the top right of the screen

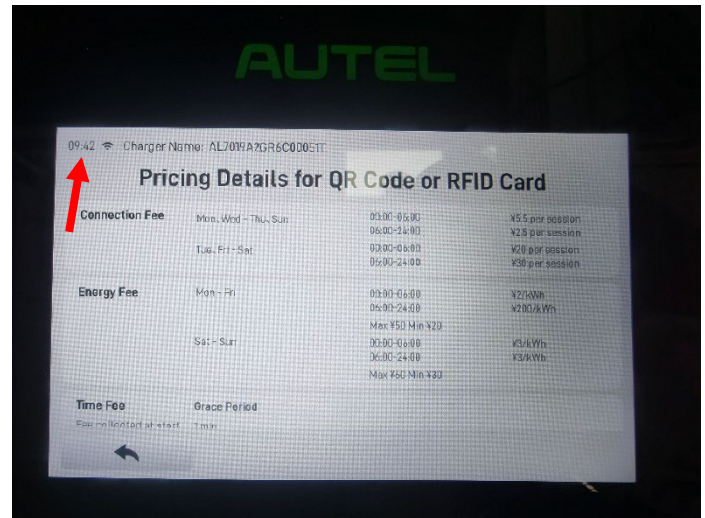


Figure 9. Double tap "time" in the top left of the screen.

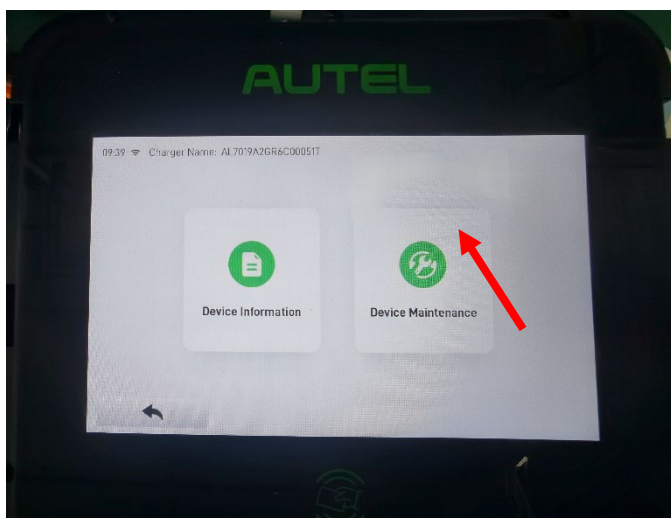


Figure 10. Tap "Device Maintenance"

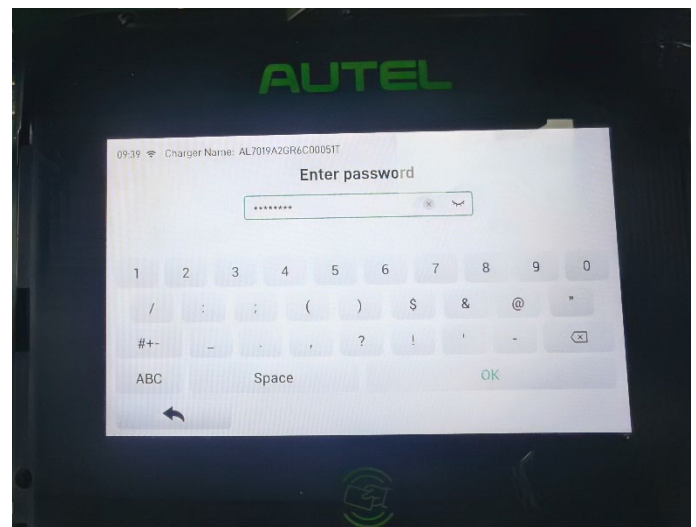


Figure 11. Input the PIN code (last 6 digits of the serial number) as the password

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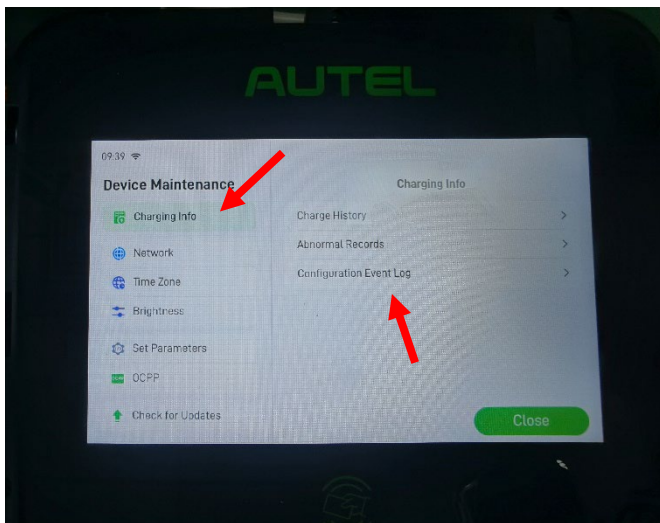


Figure 12. Tap "Charging Info" and then Tap "Configuration Event Log"

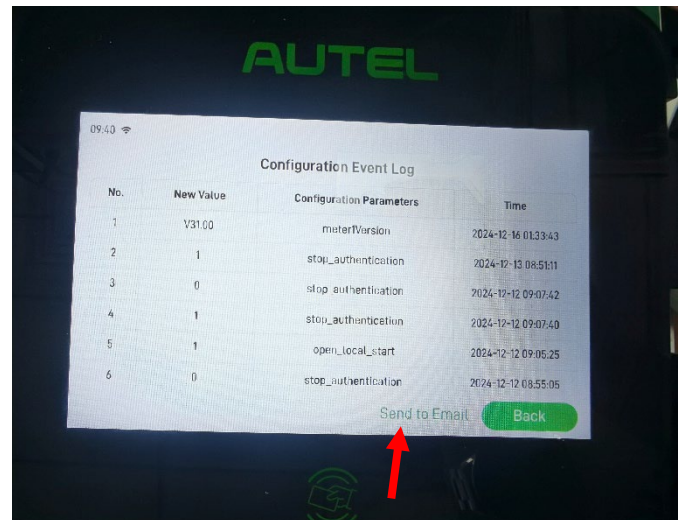


Figure 13. Tap "Send to Email" and enter the email address

The Autel EVFS shall have the capacity to provide retrieval of the Event log using the Autel mobile app as a primary indicating element. Inspectors may navigate to the charger selection page (**Figure 14**) on both iOS and android Autel mobile app versions or locate the charger via the map function (**Figure 15**). A QR code may appear on the exterior of the device and shall be used for identification purposes through the app only and will not be required to authenticate a charging session. By selecting the charger and tapping 10 times in succession, a password protected screen will pop up (**Figure 16**).

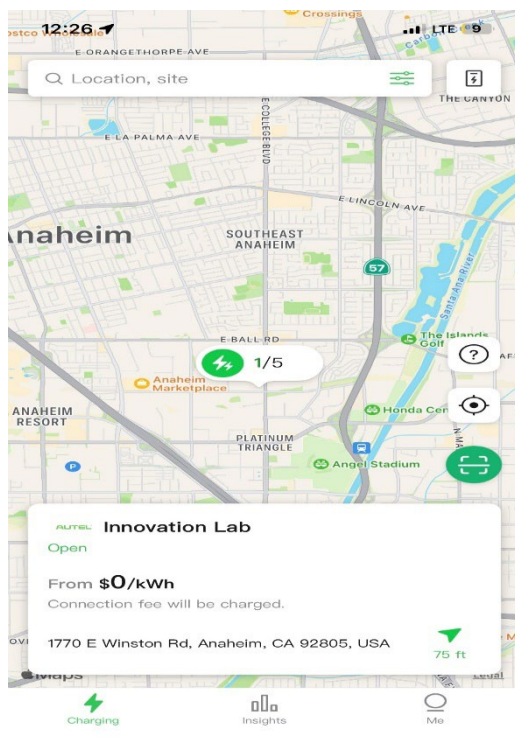


Figure 14. Charger selection map

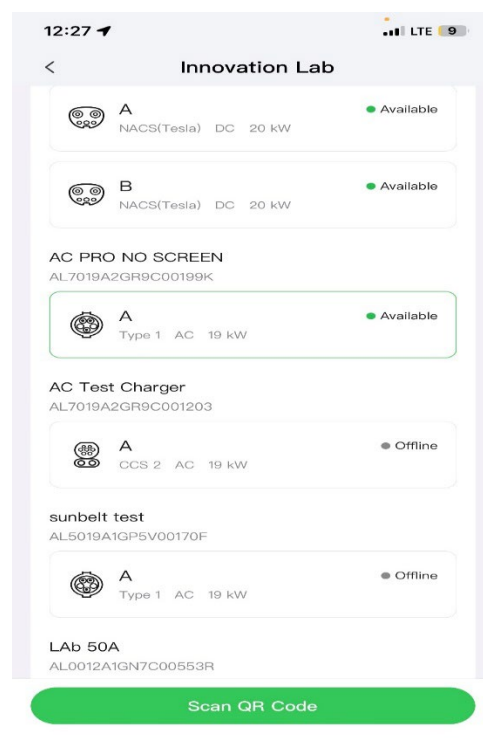


Figure 15. Charger selection screen

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Once the security key is input (Autel01), the device information will appear with Meter software version, non-resettable totalizer value, and event log are accessible (**Figure 17**).

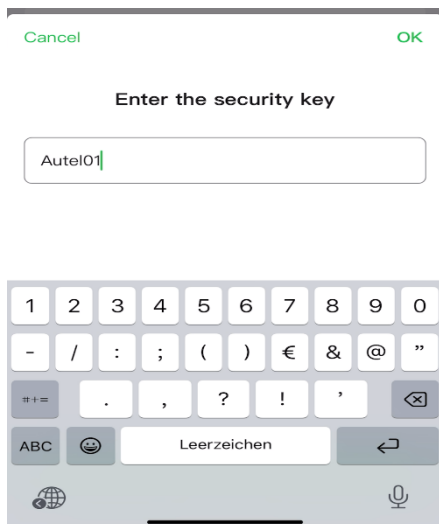


Figure 16. Security key screen example

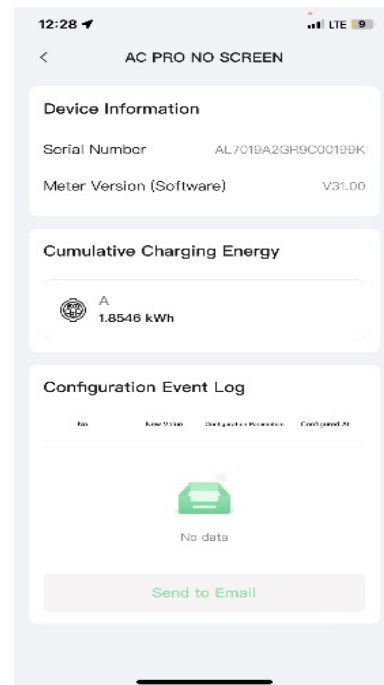


Figure 17. Non-resettable totalizer and Meter version software example

Operation: The Autel EVFS can be activated via RFID or Autel mobile app. Tap the RFID card to the reader located on the charger housing. The active session will appear on the display during charging. To end a session, a user may tap the RFID to the RFID reader again or unplug the charging cable. Once charging has completed, the receipt will be sent to the email associated with the RFID account.

For devices without a screen, the only activation method is via Autel mobile app. Users may navigate to the charger selection screen through the mobile app on both iOS and android. Users must have a valid payment method through the app prior to activation. After selecting the appropriate charger through the app, the required indications are provided via the mobile app. Upon completion of the session, the receipt is delivered through the mobile app.

For Model UW12-xxx1yyyyyyy, while the screen is present, the touch screen functionality has been removed. To operate this device, users must use the Autel mobile app to authenticate a charging session. The Autel mobile app shall be used as the primary indicating element. Upon completion of the session, the receipt is delivered through the mobile app.

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Test Conditions: The emphasis of the evaluation for the Autel AC EVFS system was on device design, performance, markings, sealing, measurement accuracy and repeatability, receipt requirements, and permanence. The UW19L0za model with J1772 cable & Model UW19LJza with NACS cable were tested for accuracy. Measurements were performed at 0.2 kWh at 10% of the maximum current deliverable (MCD) and at 0.4 kWh at 85% of the MCD. Permanence testing was performed after 200 kWh of throughput usage for the devices. Model UW12-J071yyyyyyy was evaluated for compliance of required markings and operation with both touch screen and non-touch screen functionality. The EVFS was tested for time-based fees. The Autel mobile application was evaluated as a primary indicating element for the Autel AC Models UW19L0za, UW19LJza and UW12-J071yyyyyyy. All model variations have been evaluated with both iOS and android versions, with the apps evaluated for required markings and functionality. Software functionality was tested and may increase all values within the software version. These changes will be logged within the event logger.

Evaluated By: J. Witt (CA)

Type Evaluation Criteria Used: *California Code of Regulations, Title 4, Division 9, Chapter 1, Article 1. General Code 1.10. Section 3.40. Electric Vehicle Fueling Systems and Section 5.55. Timing Devices, 2025 Edition*

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

Example(s) of the Device:

