Ford Mach-E Data Logging: Setup and Operation

1. Install the Car Scanner Pro app on your phone. Need the ‘pro’ version (costs a few bucks)
2. Go to the “Data Recording” page and check both boxes, allowing the app to access your location
3. Get the OBDLink device from the glove box and plug it into the OBD connector; firmly but do not force
4. Enable connection to the OBDLink with Bluetooth settings on your phone
5. Open the Car Scanner app
    a. Select the Ford Mustang Mach-E profile
    b. Select the Bluetooth MFi connection type
    c. press the “Connect’ button at the bottom
    d. Select the “Dashboard” function from the menu
    e. Pick the parameters you want to display/record (see next page)
    f. If some of the variables are updating you should be ready
    g. Tap the screen (double?) and “go back” at the top to the menu
6. Make your trip (make sure the key is with you and the charge cable is disconnected! :-)
7. When you’re done recording, “Disconnect” the app and power off the vehicle
8. Put the OBDlink into its case and back in the glove box and the car key on the bench. Make sure and close the garage door when you leave.
9. In the app, select data recording and look for the file you just collected
10. Swipe left on the filename and select export
11. Select the format “CSV2”. It will email you the file
12. Once you have saved the file from the email, it may be a good idea to delete it from the app as they can be quite large and you may run out of space in the middle of a test

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Suggested Parameters to Consider

Let me know if you need a better description for any of these. You may want to rename some when you process the file for easier handling and display.

time
A/C Compressor Current (A)
Absolute pedal position D (%)
Ambient air temperature (℉)
Average speed (mph)
Brake pressure (bar)
Coolant Heater Power (kW)
Distance travelled (miles)
EV Instant Energy Consumption (km/kWh)
EV Instant Energy Consumption [kWh/100km] (mi/kWh)
Gear Commanded [70='P',60='R',50='N',40='D',20='L']
HV Current (A)
HV EV Battery Power (kW)
HVB Current (A)
HVB Energy to Empty (kWh)
HVB State of Charge (%)
HVB Voltage (V)
Hybrid/EV Battery System Current (A)
Hybrid/EV Battery System Voltage (V)
Primary Motor Speed (rpm)
Vehicle acceleration (g)
Vehicle speed (mph)
Vehicle Speed High Resolution (mph)
Latitude
Longtitude (note spelling error)

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