

## Consumption Calculation Of Vehicles Using OBD Data

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### Consumption Calculation Of Vehicles Using

To calculate the fuel consumption of vehicles, the intake airflow value is needed: the intake airflow sensors are usually found in diesel vehicles and in some spark ignition vehicles. Figure 1

#### (PDF) Consumption calculation of vehicles using OBD data

- OBD data can be used as input to calculate instantaneous power and consumption of vehicles
- OBD sensors have been validated and have good accuracies to be used
- If not available on-board, airflow and air/fuel ratio can be calculated using rpm, engine Load and other parameters always available;
- Models have been validated on a dynamometer chassis with different vehicles and driving cycles.

#### Consumption calculation of vehicles using OBD data

3. Consumption calculation Consumption can be evaluated from OBD data directly from a parameter (PID) of SAEJ1979 standard [7] (or using a non-standard car manufacturer parameter) or if not available, from intake airflow sensor and air/fuel ratio sensor. Vehicles that from OBD port supply directly the instantaneous consumption are not frequent, but

#### Consumption calculation of vehicles using OBD data

All the vehicles show a difference between measurements and models never greater than 4% so this can be an accurate methodology to calculate the power and consumption of vehicles during their real use. Keywords: Instantaneous Vehicle Consumption, Engine Power, OBD, On-Board Data Collection.

#### Consumption calculation of vehicles using OBD data ...

The car, in this case, has an average fuel consumption of 7.625 liters for this period of time. Additionally, if you want to find out how much liters of fuel the car has spent in this example: 4600 kilometers/100 (this is liters per 100 kilometers)=46 x 7.625 litres (average consumption)=350.75 liters of fuel.

#### HOW TO CALCULATE FUEL CONSUMPTION IN CARS?

Vehicle Energy Consumption calculation TOol - VECTO Policy Simulation Tool for Heavy Duty vehicles (HDVs) VECTO is the new simulation tool that has been developed by the European Commission and shall be used for determining CO2 emissions and Fuel Consumption from Heavy Duty Vehicles (trucks, buses and coaches) with a Gross Vehicle Weight above 3500kg.

#### Vehicle Energy Consumption calculation TOol - VECTO ...

This cheatsheet shows all electric vehicles sorted by energy consumption. The cheatsheet is made as a quick reference, click on a vehicle for all details. Data is based on real-world values. The average is corrected for multiple versions of the same model. \* = data for upcoming cars and might be based on estimates.

#### Energy consumption of full electric vehicles cheatsheet ...

By dividing the last calculated value of the total energy (3205.39 Wh) to the total length of the WLTC drive cycle (23.266 km), we get the average energy consumption of the vehicle, 137.8 Wh/km.

#### EV design - energy consumption - x-engineer.org

the consumption of the vehicle depends on its range, the capacity of its battery and the type of driving. However, it can be estimated that the cost in electricity for one hundred kilometres is well below € 4 (or even € 3 for certain vehicles). So it is lower than that of internal combustion engines for the same distance.

#### How much power does an electric car use? - Energuid

Step 1 of 2. Select one or more vehicles. You can add, edit, and remove vehicles at any time. You can edit vehicles to personalize the MPG and fuel prices.

#### Fuel Economy Trip Calculator

If the average fuel consumption tends to decrease, you can ground suspected cars and schedule them for repairs. You might try to create your own formula and calculate it by yourself. To find average mileage per liter, you can just put total mileage and then divide it with total fuel consumption between subsequent refueling.

#### Fuel Consumption Calculator » The Spreadsheet Page

How To Determine Fuel Consumption Using Microsoft Excel Tutorials. Determine the fuel consumption in a car using Microsoft excel easily. MS Excel Tutorials, Microsoft Excel Tutorials, Basic ...

#### 00006 - How To Determine Fuel Consumption Using Microsoft Excel

Fuel consumption = Fuel used / Distance travelled. The result depends on the metrics used as input: miles per gallon if the input was in miles and gallons, and km per liter if the input was in kilometers and liters. Additionally, the fuel consumption calculator will output the fuel cost per mile or fuel cost per km, depending on the metric units selected, as well as miles per \$ / km per \$.

#### Fuel Consumption Calculator - calculates fuel economy ...

This free fuel cost calculator estimates the fuel cost of a trip based on fuel efficiency, distance, and gas price using various units of measurement. In addition, explore hundreds of calculators including a gas mileage calculator, horsepower calculator, and many others addressing topics such as math, finance, fitness, health, and more.

#### Fuel Cost Calculator

Fuel / gas efficiency can mean the output one gets for a unit amount of gas input such as " miles per gallon " or " liters per 100 kilometers " for an car / SUV (sometimes called fuel economy). Car / SUV fuel efficiency can be calculated in either l/100 km or MPG (Litres per 100 km).

#### L/100km Fuel Consumption Calculator

" A car's fuel consumption is a measure of miles driven per gallon of gas. If you know the distance you drove and how many gallons fit in your tank, you can simply divide the miles by the gas to get your "miles per gallon," or mpg. You can perform the same calculation with kilometers and liters as well.

#### 3 Ways to Calculate Fuel Consumption - wikiHow

energy consumption characteristics compared to ICE vehicles. For example, EVs are much more efficient when driving on interrupted urban routes than uninterrupted freeway [12] .

### **(PDF) Electric vehicles' energy consumption measurement ...**

Fuel Consumption - Calculate mpg - Estimate fuel consumption in miles per gallon - mpg - consumption chart and calculator; Fuel Consumption Converter - Convert between fuel consumption units like US MPG, Imperial MPG, litre/nm, litre/100 km and km/litre

### **Fuel Consumption - Calculate liter/km**

Side-by-Side comparison of cars and trucks. Compare the gas mileage and greenhouse gas emissions of new and used cars and trucks

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