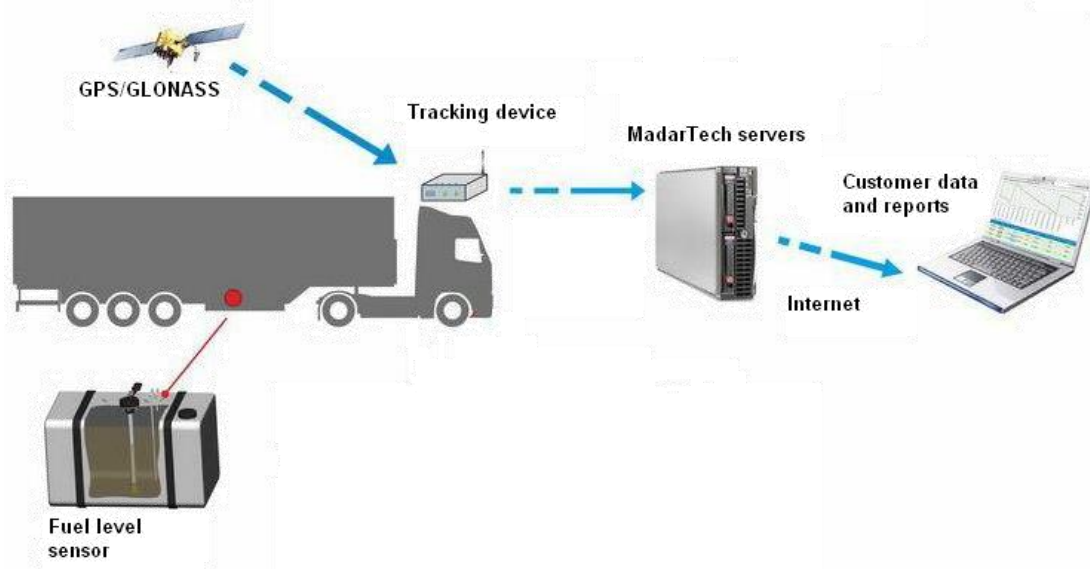


Fuel monitoring by

MadarTech



How does a Fuel Level Sensor work?

Fuel Level Sensors are designed to measure fuel level in the vehicle's fuel tank and fuel storages. The sensor is connected to the iVMS-device reporting the measured fuel value. It is also possible to monitor and control fuel theft and generate periodical reports, SMS or Email notifications can be sent to the fleet manager through the powerful capabilities of *MadarTech* tracking servers.



Why is a Fuel Level Sensor better than any other fuel monitoring solution?

There are currently several ways to monitor fuel consumption; however each of them has its drawbacks. For example, a standard floater does not have a high level of accuracy, while a CAN-bus has the so-called "dead

zone" where the inaccuracy can reach up to 100 liters.

Such methods of control as fuel consumption rates, set by manufacturer or the company using equipment itself, are unfortunately, imprecise as well. Consumption rates are usually inflated and, moreover, unlike fuel level sensors, they do not consider the vehicle load, the driving style and the road quality.

What is the economic efficiency of a Fuel Level Sensor?

The right fuel monitoring system can save up to 30-40 % of the fuel costs. Such savings guarantee ROI (Return On Investment) within 2-3 months. With oil and fuel prices fluctuating, more and more companies operating fleets are thinking about optimizing and reducing the fuel costs. By choosing *MadarTech* fuel monitoring solutions, everyone benefits – fleet owners cut fuel costs while system integrators earn money.



Benefits of a Fuel Level Sensor?

Adopting a fuel monitoring systems for fleet management will not only exclude fuel theft and ensure company vehicles are used appropriately, you will also benefit from:

- prevent fuel theft
- vehicle operating time monitoring
- improving fleet profitability
- monitor fuel consumption
- optimize fleet operations
- monitor fuel line condition
- monitor engine operation mode
- generate reports for fuel consumption
- receive fuel theft alerts

With *MadarTech* products you can:

- monitor your vehicles and manage your fleet
- detect unauthorized trips and underhand cargo
- avoid fines for exceeding load limits
- monitor vehicle location in real time

Fuel level sensors are capacitive level measurement sensors. Compared with the standard resistive type fuel sensors the capacitive sensors are completely electronically operated and bear no moving parts, ensuring low inaccuracy, stability and reliability in operation.

The filtering algorithm Fuelmetrix is used to calculate the exact level of the fuel in the fuel tank. This algorithm provides reliable fuel level calculations even in extreme operating conditions.



***MadarTech* uses the best and most reliable products and hardware with international recognition and certification such as:**