

Purpose

Different fuel types (summer diesel, winter diesel and especially biodiesel) have different permittivity values. For accurate fuel volume measurement in case of switching between different types of fuel, re-calibration (new table of level-to-volume correlation) is needed.

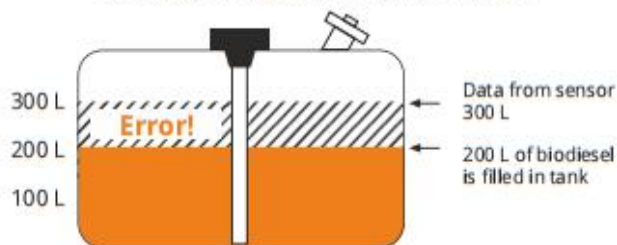
DUT-E 2Bio fuel level sensor with three measuring electrodes is designed for accurate volume measurement of all types of fuel regardless of its permittivity.

Re-calibration and re-configurations is not needed.

Same accuracy
for all types
of fuel!

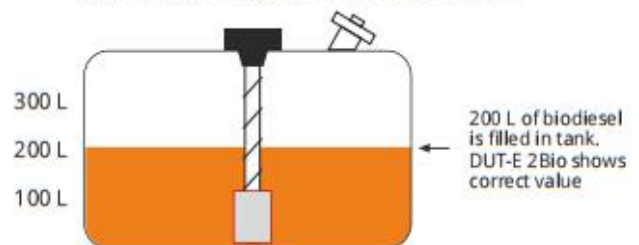
Ordinary capacitive sensors with two measuring electrodes

Fuel level sensor sends **overestimated** fuel volume when switching from regular diesel fuel to biofuel.



DUT-E 2Bio fuel level sensor with third electrode

Fuel level sensor sends **real** fuel volume when switching from regular diesel fuel to biofuel.



Features

- Re-calibration of fuel tank is not needed when switching to other fuel type!
- Digital self-diagnostics function for data reliability control.
- Adjustable signal filtration function minimizes data leaps caused by fuel vibration.
- Screen-filter protects against mud and water from bottom of tank.
- Probe length can be cut or increased by 60% of initial length.
- Fuel temperature is measured by sensor immersed in fuel.
- Configuration via Bluetooth by connecting S6 BT Service Adapter.
- Detection of fuel type change.

Technical specifications

Operation principle	Capacitive
Output signal	CAN j1939/S6 RS-232/485 Modbus voltage or frequency, current
Measurement inaccuracy, mm	± 0.1
Supply voltage, V	10 .. 45, protection up 100
Operation temperature, °C	-40 .. +85
Probe length, mm	700, 1000

Technologies

