

Same accuracy for all types of fuel!

Purpose

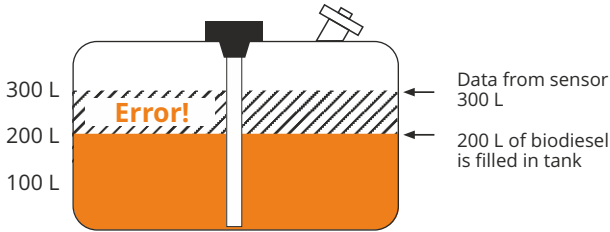
Different fuel types (summer diesel, winter diesel and especially biodiesel) have different permittivity values. For accurate fuel volume measurement in case of switching between different types of fuel, re-calibration (new table of level-to-volume correlation) is needed.

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.

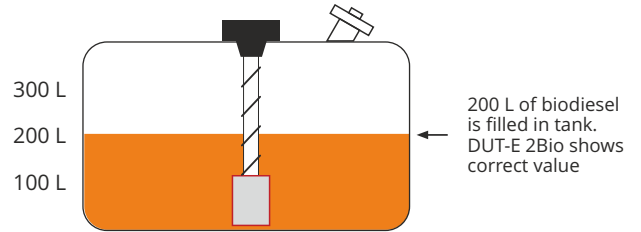
Ordinary capacitive sensors with two measuring electrodes

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.



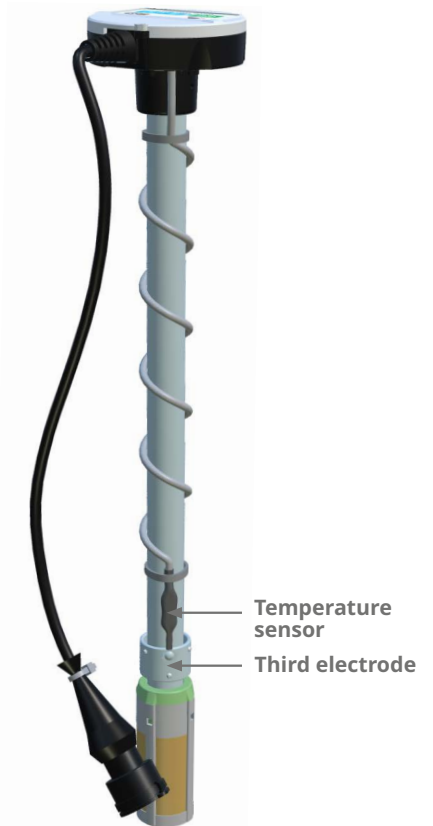
Features

- 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



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