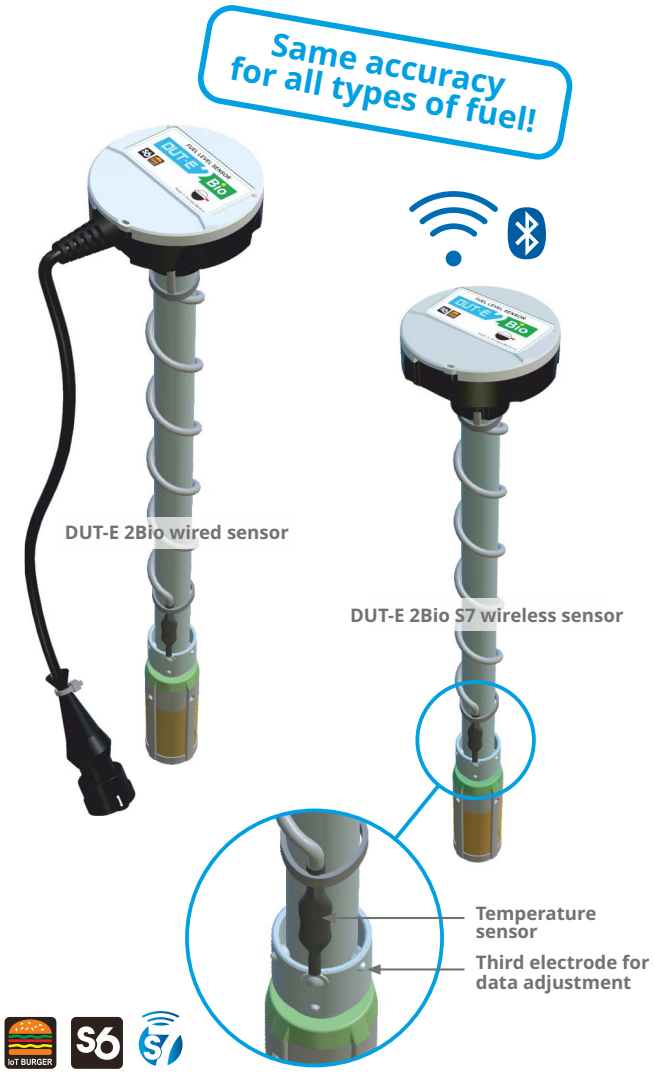
DUT-E 2Bio differential fuel level sensor



Automatic adjustment function in **DUT-E 2Bio** sensor ensures maximum accuracy in fuel level measurement, regardless of the fuel type in the tank.

Switching between fuel types or refueling from various sources does not affect measurement precision.

Features

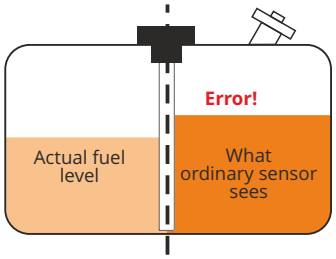
- ✓ No re-calibration is needed when switching fuel types.
- ✓ Detection of fuel type change.
- ✓ Digital self-diagnostics function for data reliability control.
- ✓ Adjustable signal filtration minimizes data leaps from fuel vibration.
- ✓ Screen-filter protects against mud and water from bottom of tank.
- ✓ Probe length can be cut or increased.
- ✓ Fuel temperature is measured by sensor immersed in fuel.

Benefits of adjustment when changing fuel types

Different types of fuel (gasoline, summer/winter diesel, biofuels) have varying permittivity values.

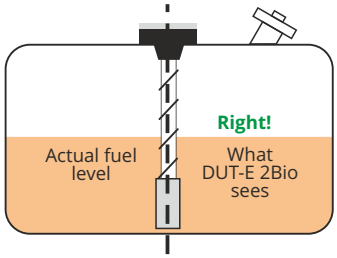
Accurate fuel level measurement during a fuel type switch requires tank re-calibration.

Ordinary capacitive sensors



When switching between fuel types, the sensor displays an overestimated or underestimated fuel level.

DUT-E 2Bio fuel level sensor with third electrode



During a fuel type switch, **DUT-E 2Bio** sensor adjusts the data to display the **actual fuel level** in the tank.

Models, output signal

DUT-E 2Bio CAN	CAN j1939/S6 interface
DUT-E 2Bio 232	RS-232 interface, Modbus RTU
DUT-E 2Bio 485	RS-485 interface, Modbus RTU
DUT-E 2Bio AF	voltage 1..9 V / frequency 500..1500 Hz
DUT-E 2Bio I	current 4..20 mA
DUT-E 2Bio S7	Bluetooth 5.2/S7 wireless interface

Technical specifications

Operation principle	capacitive
Measurement inaccuracy	± 0,1 mm
Supply voltage	10 .. 45 V, protection up 100 V
Operation temperature	–40 .. +85 °C
Built-in battery life (S7 model)	at least 5 years
Increasing sensor length	up to 6000 mm

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