WIRELESS FUEL LEVEL SENSOR
UTRACK TD-BLE

The first wireless capacitive fuel level sensor on the market with Bluetooth Low Energy (BLE) technology!

This isn't just another innovation. It's an evolutionary leap into the wireless future of transport telematics!

It's never been easier to install a fuel monitoring system.

Installing and configuring traditional fuel level sensors takes a long time. The lack of wires will finally eliminate the tedious, time-consuming and more costly process of laying cables through the entire vehicle system. No wires - no problem.

Along with this, the risk of vandalism associated with interference with electrical wiring is eliminated. Moreover, the information on fuel is transferred to the control system as quickly, in the same volume and with the same accuracy as on wires.

Just imagine how much time, effort and money you can now save!

7 years of continuous operation from just one battery.

Lithium-thionyl chloride batteries and, of course, Bluetooth 4.0 technology with low-energy feature, are the guarantee of long-term use of the sensor without replacing batteries. Thanks to Bluetooth Low Energy, the wireless fuel level sensor is able to perform its work from a single battery for several years.

New, robust, airtight, shockproof protection.

"UTRACK TD-BLE" enclosure is equipped with an additional protective casing made of impact-resistant polyamide and is distinguished by high endurance to various mechanical damages on all types of vehicles, special equipment, in stationary tanks and containers.

The function of the device will not be affected by polarity inversions, voltage surges, interference and attempts to deliberately disrupt its performance, for example, with a stun gun. Any unauthorized interference with the TD-BLE will be recorded in the monitoring system.

The sensor is safely isolated from dust and moisture ingress as its housing has IP69 protection degree according to GOST 14254. Stable operation of the equipment will not be disturbed by critical changes in temperature (-30 … +85 °C) and atmospheric pressure (84 … 106.7 kPa). Due to thermal compensation algorithm "UTRACK TD-BLE" automatically corrects the fuel level when the exterior environment characteristics change.

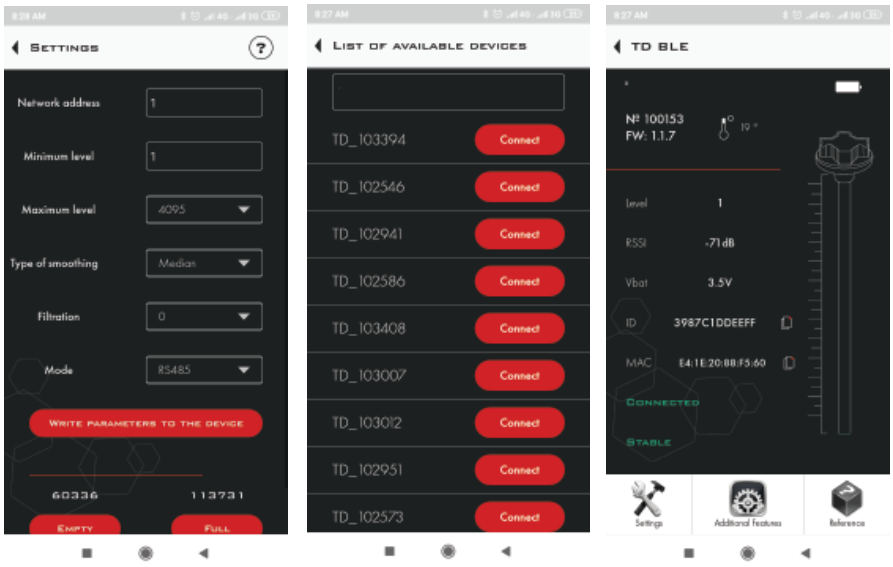
Even in the most extreme operating conditions the "UTRACK TD-BLE" sensor guarantees continuous and accurate monitoring of fuel consumption!

Compliance with explosion protection requirements.

"UTRACK TD-BLE" Fuel level sensor fully meets the requirements of the Technical Regulations of the Customs Union 021/2011 "On the safety of equipment for work in explosive environments. This is confirmed by EAES certificate No. RU C-RU.AD07.V.00706/19. Thus, the sensor can be officially used for transportation of dangerous goods in the Eurasian Economic Community space, including Russia, Belarus, Armenia, Kazakhstan and Kyrgyzstan. For this purpose, it features an explosion-proof enclosure, enhanced class "e" protection, intrinsic safety and other mandatory emergency protection measures.

Setting up from the smartphone.

Your employees don't need to carry laptops anymore, as the configuration can now be done simply by using the user-friendly mobile application installed on your phone. The range of the bluetooth signal is at least 10 meters and up to 100 meters (provided there is no interference or obstacles). Handy, isn't it?



Compatible with popular trackers

"UTRACK TD-BLE" wireless fuel level sensor is compatible via Bluetooth Low Energy (BLE) with popular GLONASS/GPS trackers of such brands as Teltonika, Navtelecom, Neomatica, Queclink, Galileosky, Vega-Absolute, Fort Telecom, Glomos.

**Connection to all other types of satellite navigation systems with RS-485 LLS interface is possible via BLE-BASE wireless adapter. The adapter connects directly to the tracker and provides a wireless bridge between BLE-BASE and the wireless fuel level sensor "UTRACK TD-BLE".

TECHNICAL CHARACTERISTICS

Operation mode	digital
Digital mode: - interface - communication protocol	 Bluetooth LE (BLE) Escort BLE
Measuring error, maximum	1%
Range (at normal conditions in the absence of interference and obstacles when working with the base)	up to 100m
Receiver sensitivity / transmitter power	-90 dB / 0 dB
Ingress protection by GOST 14254	IP69S
Ingress protection by GOST 14254	IP69S
Operation conditions: - normal operating temperature range - extreme temperature range - atmospheric pressure	 -45 … +50 °C -60 … +85 °C 84 … 106,7 kPa
Overall dimensions	no more 80x80x(L+21)mm, where L – length of tubes
Length of measuring tubes	from 1m to 6m
Weight, maximum	0,5 kg

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