



FUEL LEVEL SENSOR

DOT BLS V.6

TECHNICAL CERTIFICATE



General information:

High-precision Fuel Level Sensor (FLS) Dot is used to measure fuel's level in reservoirs, fuel tanks and other petroleum-based products storage tanks. BLS v.6 is developed for usage in vehicles to measure fuel's level and as a industrial measuring tool for light petroleum products. Dot FLS mean of operation is based on the capacitive measurement method. The readings are generated depending on the dielectric constant of the medium in which the sensors is placed; in this case, the medium is various types of light petroleum products, such as gasoline, diesel, etc.

The sensor is not intended for measuring the level of water and other conductive liquids, as well as liquids that change their state in the operating temperature range.

The sensor is not intended for measuring the fuel level in containers that are subject to explosion-proof equipment requirements.

Diagnostics, configuration, and calibration of the sensor are carried out wirelessly via Bluetooth (BLE) using the Sensor Configurator mobile application.

Data transfer to third-party devices is carried out via Bluetooth (BLE).

Store the sensor horizontally! In this position, the built-in accelerometer detects the inactive state and turns off the power to the main board, which prevents battery drain.

Technical data

General technical specification are given in Table №1.

Table №1 - Technical data

Characteristics	Values
Supply voltage, V	3.6 (ER17335 battery)
Current consumption, μ A	20
Service life, years	7
Replaceable battery	+
Mounting for a seal	+
Built-in temperature sensor	+
Built in motion sensor (accelerometer)	+
Measurement error, %	≤ 1
Working temperature, $^{\circ}$ C	from -40 to +70
Length of measuring part, mm	300 - 1000
Weight, gr. (1 meter variant)	400
Software updates	есть
Data transmittance mode	BlueTooth 5.3 compatible with 4.0 — 5.3
Operating range (in open space without interference and obstacles), m	10-20
Setup and diagnostics	mobile app Android and IOS

WARRANTY OBLIGATIONS

The hardware is designed for long-term operation in autonomous mode with no regular maintenance.

Installation date and installers credentials are to be stated in the Warranty Ticket and certified by installer's seal.

Warranty repairs/replacement is not provided in the following cases:

- if there is a violation of operating rules;
- if there are traces of mechanical damage (both external and internal);
- if the malfunctions are caused by ingress of external forces, insects or liquids;
- if there are traces of chemical, electrochemical, electrostatic and/or thermal damage;
- if the damage was done by power supply, communication or cable networks , which are not compliant with state standards;
- if the damage was done while installing parts and/or components, that are not approved by the manufacturer;
- if the repairs/maintenance during the warranty time was done by personal not authorized by the manufacturer;
- if the manufacturer's seals are damaged;
- if the deficiency of hardware's operation is caused by external influences on the hardware and the electrical circuit to which the hardware is connected;
- if the malfunction is caused by third-party actions or other unforeseen circumstances not related to the manufacturer's liability

Delivery package

The device is supplied in the configuration shown in Table №2.

Table №2 - Supply package

№	Name	QTY	Notes
1	Fuel Level Sensor	1	
2	Rubber gasket	1	
3	Mounting hardware	5	
4	Packaging	1	
5	Technical certificate	1*	upon request

All relevant technical information and software can be found on the manufacturer's website.

Note: The manufacturer reserves the right to change the device's configuration without disimproving its consumer characteristics.

Warranty Ticket						
Name and type	Fuel Level Sensor «Dot BLS v.6»					
Serial Number						
Date of purchase	«__» _____ 20__ <table><tr><td>date</td><td>month</td><td>year</td></tr></table>			date	month	year
date	month	year				
Seller						
Seller's sign and seal						