



Table 2

Position	Amount
FLS PetrolX	1 pc
Installation kit	
— Gasket	1 pc
— Bolt	4 pc
— Spare bolt	1 pc
— Sealing bolt	2 pc
— Sealed washer	6 pc
— Fuse holder	1 pc
— Fuse	1 pc
— Connection cable (7m)	1 pc
— Indicator seal	2 pc
— Sealing wire, 45 cm	1 pc
— Heatshrink tube for FLS connector	1 pc
Passport	1 pc
Operational manual(1 per batch)	1 pc
Package	1 pc

## INSTALLATION RECOMMENDATIONS

### 6. Overall recommendations

Installation has to be carried out by certified and trained specialists.

The vehicle's manufacturer safety requirements should be met during the installation and calibration. Also, the safety requirements concerning the vehicle should be executed.

Check if the installation set is full before installing the FLS. Make sure that there is no damage on the surface or on the cable.

### C. Installation location selection

Based on the tank geometry, FLS should be installed as close as possible to the tank center.

If it is not possible, the FLS should be mounted as close as possible to the recommended place.

Installing the FLS far away from the recommended places can lead to measurement errors caused by the vehicle incline.

It is recommended to install more than one sensor for low, long tanks.

	Front view	Side view	Top view
Rectangular tank			
Cylindrical tank			
Complex tank			

### a. Installation order:

1. Installation location selection
2. Fuel tank preparation
3. FLS probe cutting
4. FLS calibration
5. FLS configuration
6. Tracker connection
7. FLS installation
8. Tank profiling
9. FLS sealing

Required materials and instruments are shown in table 3.

Table 3

Nº	Items required for installation
1	Metal tape measure
2	Tank measuring rod
3	Core drill (recommended $\varnothing$ (32÷ 35)mm)
4	Metal drill bit (recommended $\varnothing$ (3÷ 3,7)mm)
5	Drill (screw gun)
6	Flat-blade Screwdriver
7	Hacksaw
8	Pliers
9	Blow drier
10	Zip ties (30 pc)
11	Calibration plug
12	Gasoline-proof sealant
13	Universal 485 Scout Configurator
14	PetrolX configuration cable
15	Laptop with the Scout Configurator installed

## INSTALLATION RECOMMENDATIONS

### D. FLS probe cutting

Measure the tank depth L1. Cut off the probe to the (L1 -10...20mm), to protect the FLS from short circuit, which can be caused by water in the tank's bottom. Smooth out the cut, be sure to remove any metal parts.

**Install the insulation plug(from the installation kit) (figure 2).**

**CAUTION!** FLS Calibration, operation and tank profiling conducted without the insulation plug **may cause incorrect** fuel level measurement!



Figure 2

**E. Connector pin assignment is shown in Table 4.**

Table

Pin number	Assignment	Wire colour
1C	Power (+) 12/24 V	Red
2C	Power(-) 12/24 V	Black
1B	Frequency out	Output
1A	RS-485 A	ScoutNet or LLS
2A	RS-485 B	White



