TECHNOTON

GEOTAB.

COMPATIBILITY DECLARATION

JV Technoton and Geotab Inc. confirm:

DUT-S7 GT
fuel level sensor

and

GO7
terminal

are compatible on wireless data transfer standard.

Director
JV Technoton

_____ A. Kaplunski

Recommended settings: see Annex

Recommendations on connecting and configuring Geotab GO7 device and DUT-E S7 GT fuel level sensor

1. Equipment connection.

Connect IOX-BT 20E046E7 antenna to GEOTAB GO7 device, which is connected to OBD II socket of a vehicle. The device is configured automatically.
DUT-E S7 GT fuel level sensor and the device should be connected via Bluetooth.

2. Setting up the equipment.

Geotab GO7 device does not require configuration.

DUT-E S7 GT sensor configuration using Fuel tank monitor GT app.
The app is downloaded from Google Play or can be obtained as .apk-file from Technoton, contact sales@jv-technoton.com

To proceed with DUT-E S7 configuration, the sensors should be switched to *Service* mode. *Service* mode allows firmware update and configuration of the sensor.

Service mode is accessible either from *Manufacturing* mode or from *Operation* mode. To enter one of the modes, activate DUT-E S7 using a magnetic key (part of delivery set) – see page 23 of DUT-E S7 Operation Manual for more info https://docs.jv-technoton.com.

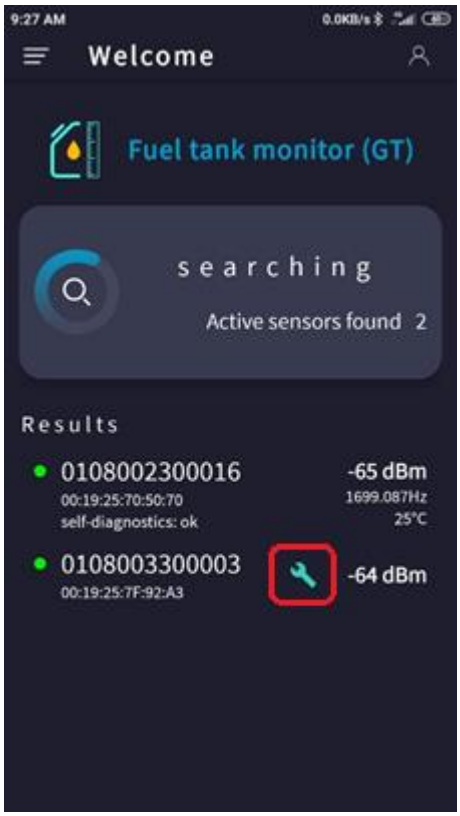


Fig. 1

If the sensor is initially activated to *Manufacturing* mode, *Service* mode becomes automatically active for 20 seconds.
If the sensor is initially switched to *Operating* mode – use a small screwdriver to make a short circuit between sensor's inner and outer tubes and at the same time touch the sensor's cover with a magnet.

To make sure the sensor is active and is in *Service* mode, check sensor list in Fuel tank monitor GT app. Service mode is indicated by a wrench icon. (Fig. 1)

Tap a sensor you want to configure and enter login and password (Fig.2). Default login is 0 and password is 1111.

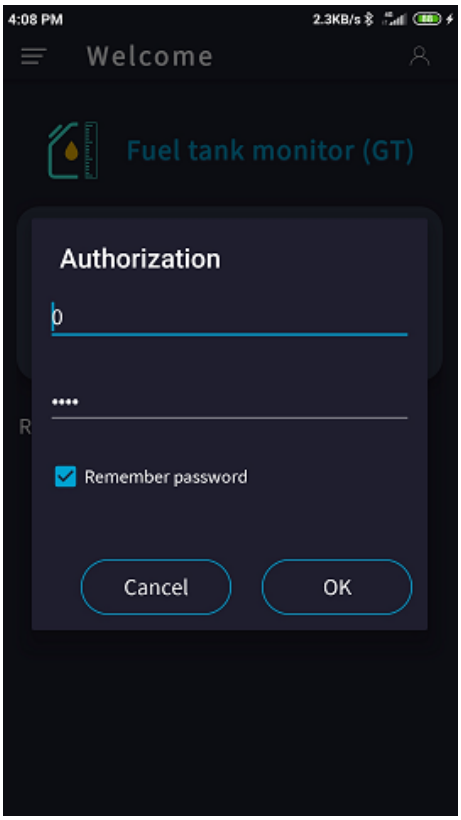


Fig. 2

If the sensor's tubes were cut/extended - enter its actual length in the table and make "empty" and "full" calibration as described in DUT-E S7 Operation Manual (Fig. 3)

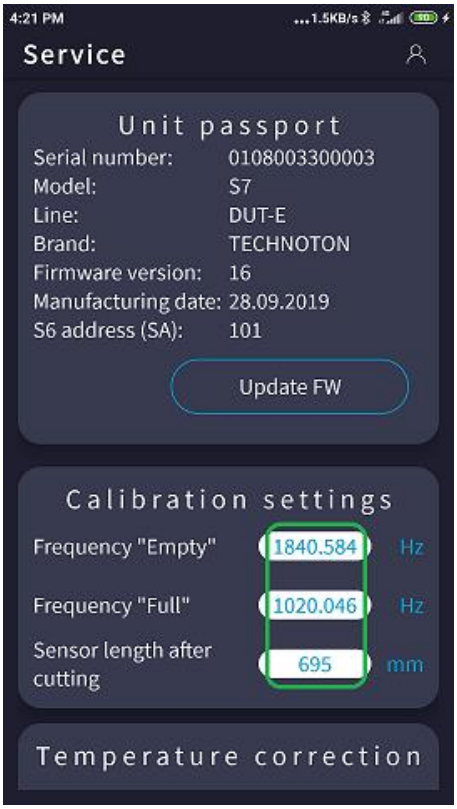


Fig. 3

Proceed with the calibration of the tank. Pour fuel portions into the tank and enter the data in the table (Fig. 4).

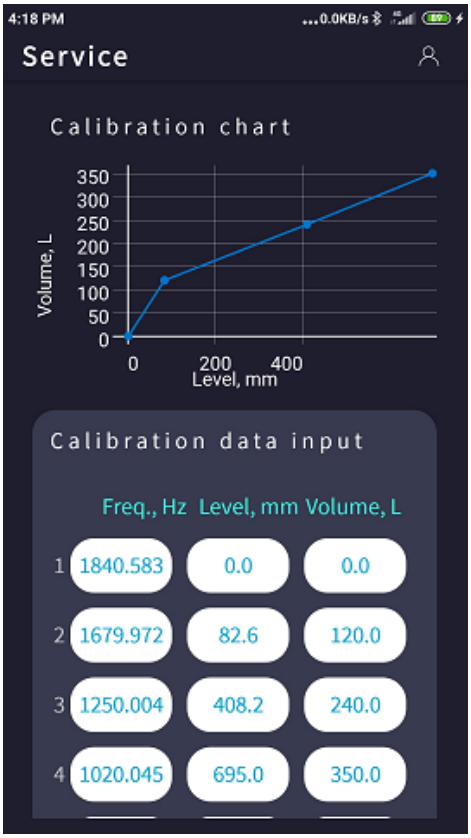


Fig. 4

For saving sensor profile to its internal storage, tap the button (Fig. 5) …

Fig. 5

…and select "Save to Unit" (Fig. 6)

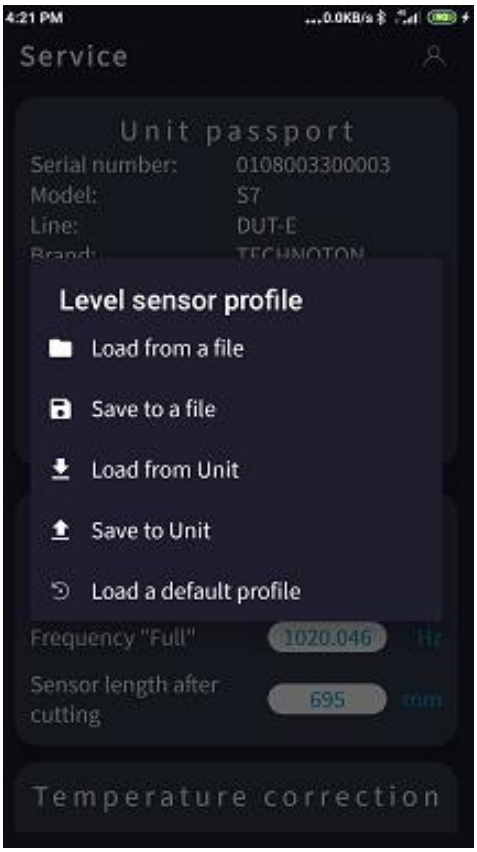


Fig. 6

Sensor configuration is finished.

3. Configuring report template at myGeotab platform.

Geotab device should be registered in the platform by Geotab technical support.

For more convenient data display, including displaying data from 2 and more sensors of a vehicle, Technoton created modified report template called **GEOTAB GO7+DUT-E S7 report template** – it can be obtained from Technoton by contacting your sales representative or Technoton technical support at support@technoton.by

Uploading the report template file to the server
Go to https://my.geotab.com and log in to your account (preferably – from PC or laptop). Go to the **Administration** section, click **Report Setup** and then **Report Views** (Fig. 7).

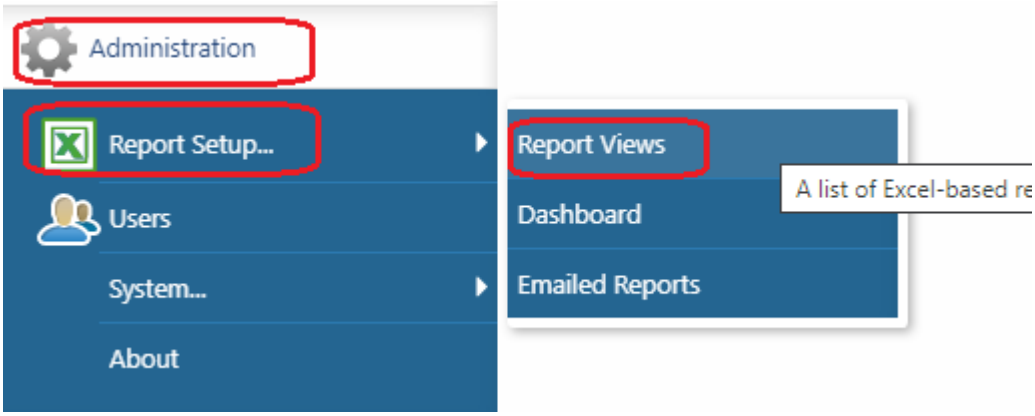


Fig. 7

Click on the "**Add Excel File**" button, drag **GEOTAB GO7+DUT-E S7 report template** file into the "Drop your file here or click to browse your computer" field, or right-click and select the report file (Fig. 8)

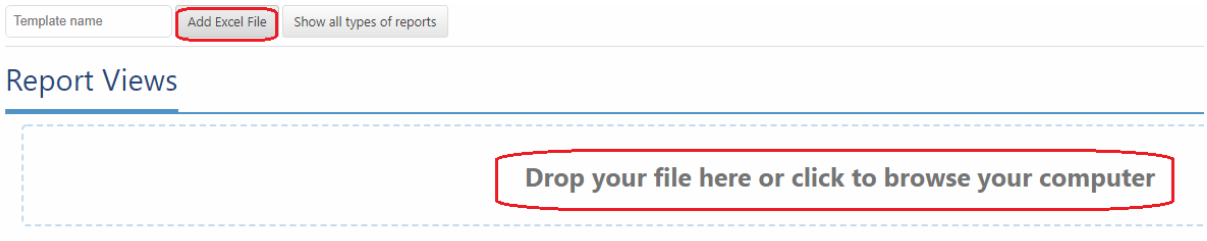


Fig. 8

Downloading report for the selected period from the platform

Go to **Engine & Maintenance** section, click **Engine and Device** and then **Measurements**. In the upper left corner click **Options** button and select period and object (device/vehicle) name (Fig. 9-10).

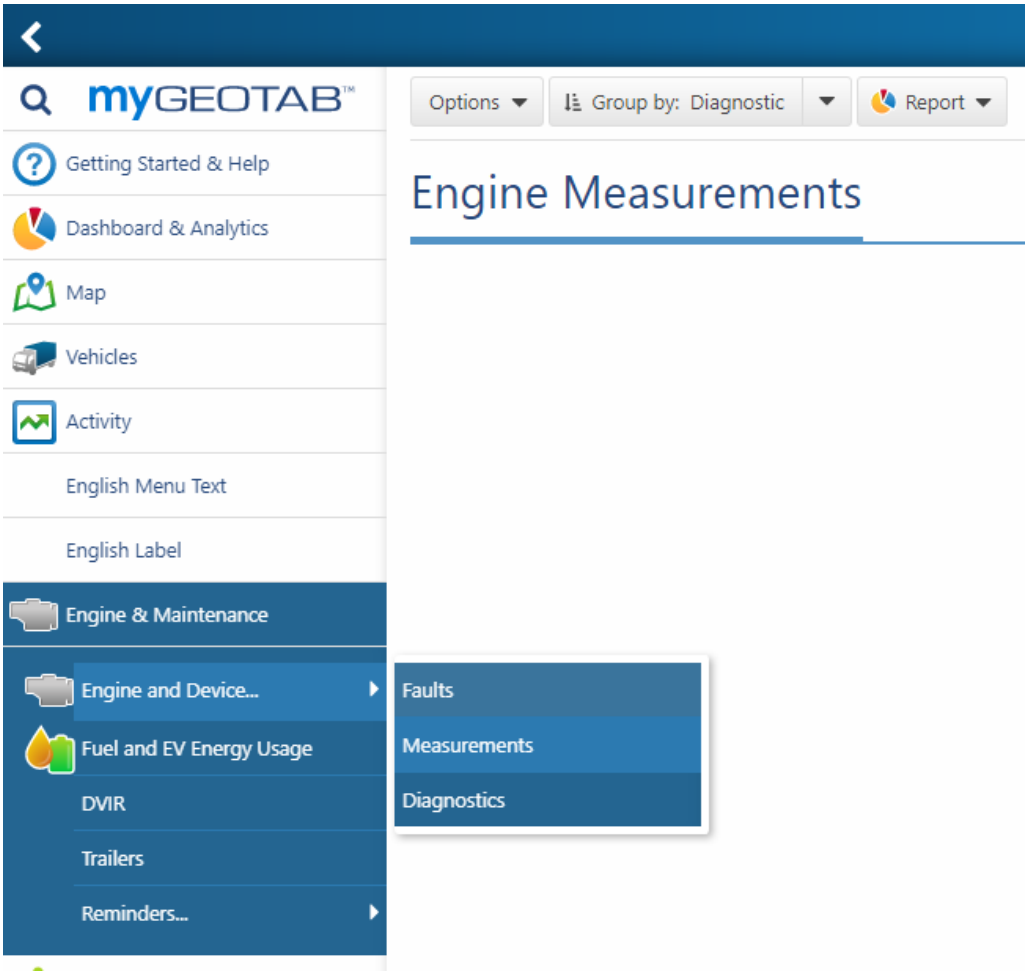

mygeotab
Options
Group by: Diagnostic
Report
Engine Measurements
Getting Started & Help
Dashboard & Analytics
Map
Vehicles
Activity
English Menu Text
English Label
Engine & Maintenance
Engine and Device...
Fuel and EV Energy Usage
DVIR
Trailers
Reminders...
Faults
Measurements
Diagnostics

Fig. 9

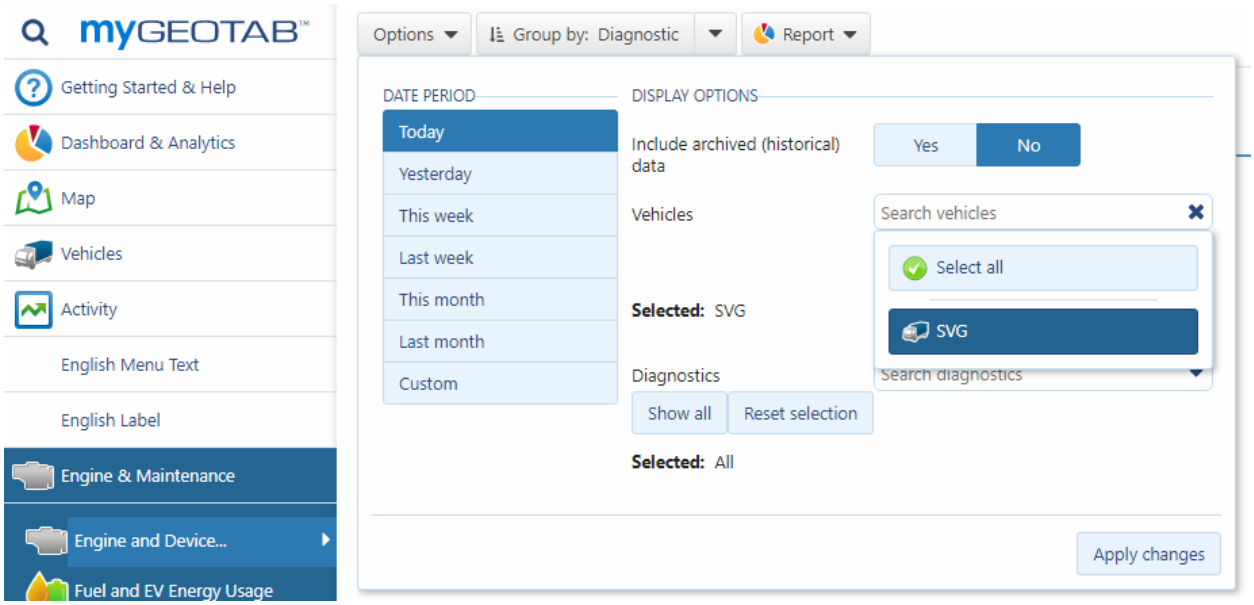

mygeotab
Options
Group by: Diagnostic
Report
Getting Started & Help
Dashboard & Analytics
Map
Vehicles
Activity
English Menu Text
English Label
Engine & Maintenance
Engine and Device...
Fuel and EV Energy Usage
DATE PERIOD
Today
Yesterday
This week
Last week
This month
Last month
Custom
DISPLAY OPTIONS
Include archived (historical) data
Yes
No
Vehicles
Search vehicles
Select all
SVG
Selected: SVG
Diagnostics
Search diagnostics
Show all
Reset selection
Selected: All
Apply changes

Fig. 10

Click **Report** button and select **GEOTAB GO7+DUT-E S7** report (the report name could be different if you have renamed report template file before uploading it to myGeotab platform) (Fig. 11)

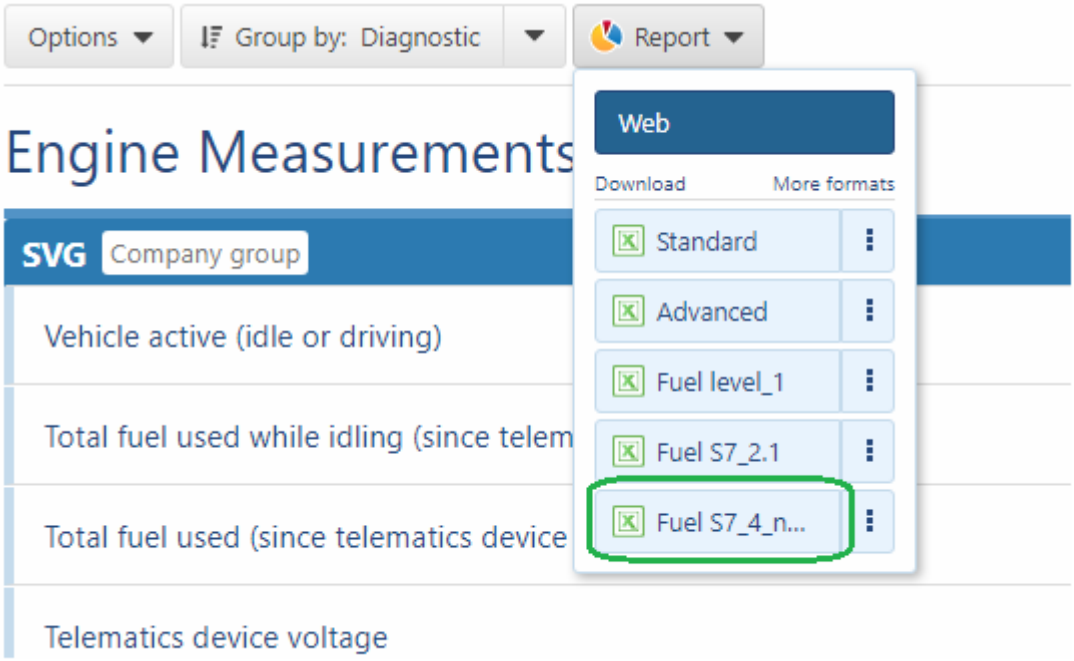


Fig. 11

Select "Use default options" in the pop-up window "Report options" (Fig. 12).

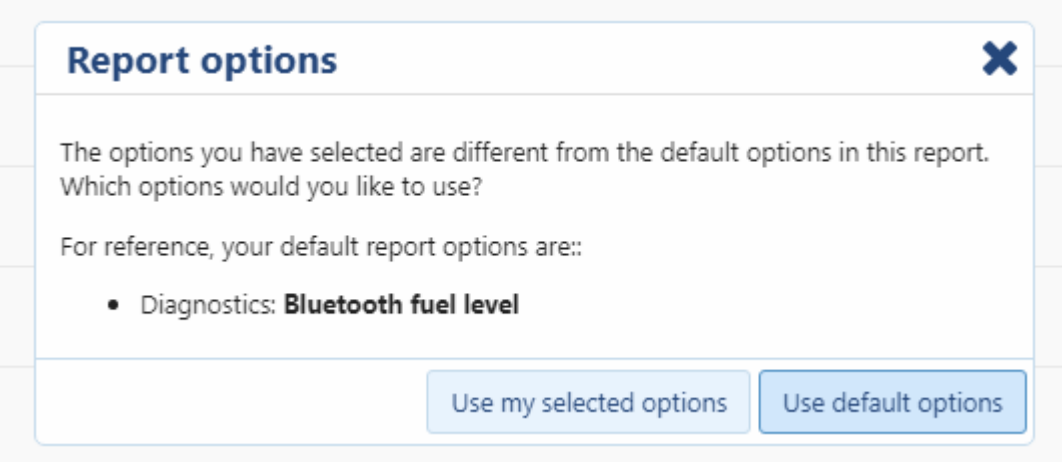
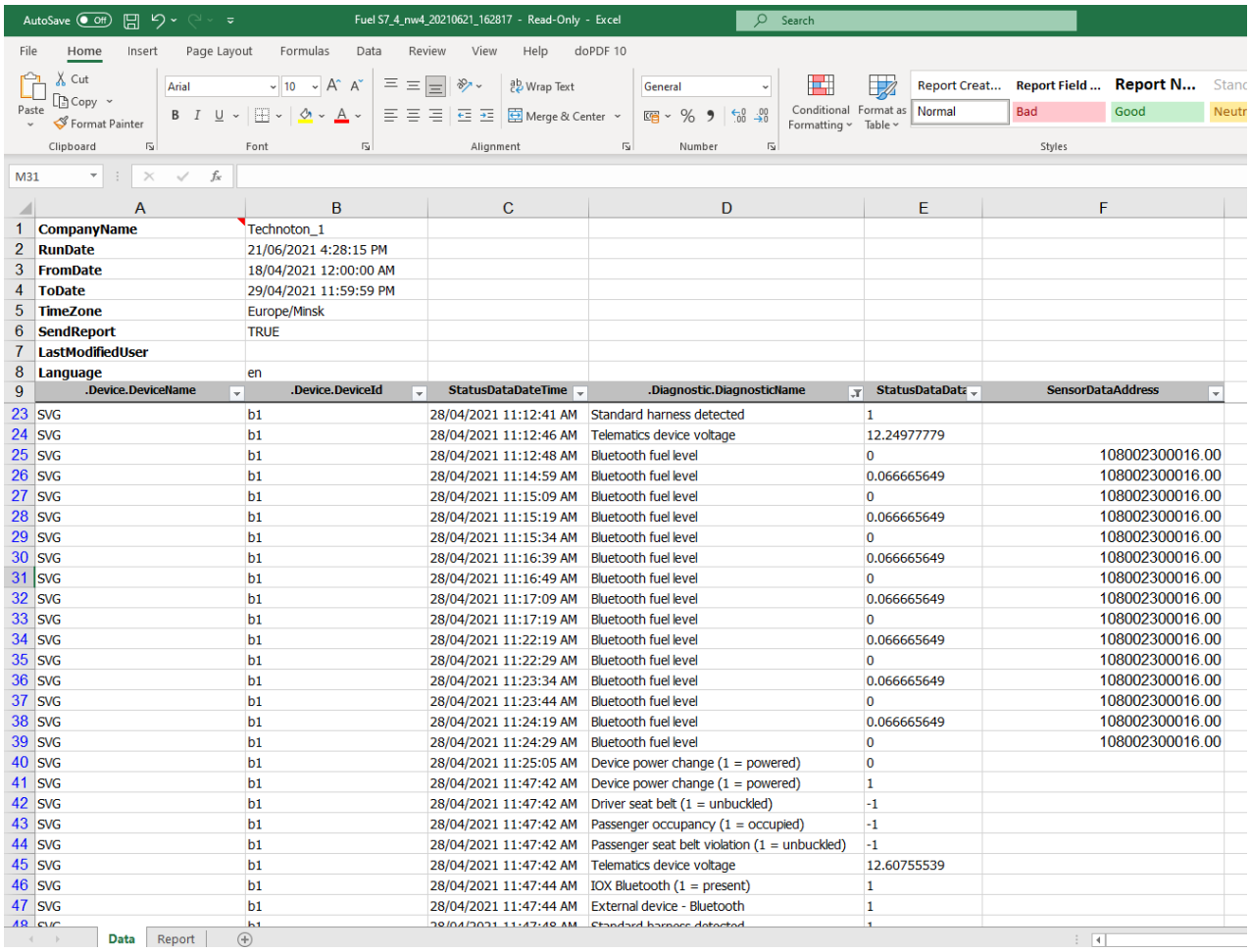


Fig. 12

Select where do you want to store the report on your device, then open the file (Fig. 13)



	A	B	C	D	E	F
1	**CompanyName**	Technoton_1				
2	**RunDate**	21/06/2021 4:28:15 PM				
3	**FromDate**	18/04/2021 12:00:00 AM				
4	**ToDate**	29/04/2021 11:59:59 PM				
5	**TimeZone**	Europe/Minsk				
6	**SendReport**	TRUE				
7	**LastModifiedUser**					
8	**Language**	en				
9	**.Device.DeviceName**	**.Device.DeviceId**	**StatusDataDateTime**	**.Diagnostic.DiagnosticName**	**StatusDataDat**	**SensorDataAddress**
23	SVG	b1	28/04/2021 11:12:41 AM	Standard harness detected	1	
24	SVG	b1	28/04/2021 11:12:46 AM	Telematics device voltage	12.24977779	
25	SVG	b1	28/04/2021 11:12:48 AM	Bluetooth fuel level	0	108002300016.00
26	SVG	b1	28/04/2021 11:14:59 AM	Bluetooth fuel level	0.066665649	108002300016.00
27	SVG	b1	28/04/2021 11:15:09 AM	Bluetooth fuel level	0	108002300016.00
28	SVG	b1	28/04/2021 11:15:19 AM	Bluetooth fuel level	0.066665649	108002300016.00
29	SVG	b1	28/04/2021 11:15:34 AM	Bluetooth fuel level	0	108002300016.00
30	SVG	b1	28/04/2021 11:16:39 AM	Bluetooth fuel level	0.066665649	108002300016.00
31	SVG	b1	28/04/2021 11:16:49 AM	Bluetooth fuel level	0	108002300016.00
32	SVG	b1	28/04/2021 11:17:09 AM	Bluetooth fuel level	0.066665649	108002300016.00
33	SVG	b1	28/04/2021 11:17:19 AM	Bluetooth fuel level	0	108002300016.00
34	SVG	b1	28/04/2021 11:22:19 AM	Bluetooth fuel level	0.066665649	108002300016.00
35	SVG	b1	28/04/2021 11:22:29 AM	Bluetooth fuel level	0	108002300016.00
36	SVG	b1	28/04/2021 11:23:34 AM	Bluetooth fuel level	0.066665649	108002300016.00
37	SVG	b1	28/04/2021 11:23:44 AM	Bluetooth fuel level	0	108002300016.00
38	SVG	b1	28/04/2021 11:24:19 AM	Bluetooth fuel level	0.066665649	108002300016.00
39	SVG	b1	28/04/2021 11:24:29 AM	Bluetooth fuel level	0	108002300016.00
40	SVG	b1	28/04/2021 11:25:05 AM	Device power change (1 = powered)	0	
41	SVG	b1	28/04/2021 11:47:42 AM	Device power change (1 = powered)	1	
42	SVG	b1	28/04/2021 11:47:42 AM	Driver seat belt (1 = unbuckled)	-1	
43	SVG	b1	28/04/2021 11:47:42 AM	Passenger occupancy (1 = occupied)	-1	
44	SVG	b1	28/04/2021 11:47:42 AM	Passenger seat belt violation (1 = unbuckled)	-1	
45	SVG	b1	28/04/2021 11:47:42 AM	Telematics device voltage	12.60755539	
46	SVG	b1	28/04/2021 11:47:44 AM	IOX Bluetooth (1 = present)	1	
47	SVG	b1	28/04/2021 11:47:44 AM	External device - Bluetooth	1	

Fig. 13

From **Diagnostic.DiagnosticName** column select **Bluetooth fuel level** (Fig.14) if you want to display fuel level values or **Bluetooth beacon temperature** if you want to display temperature from DUT-E S7 GT fuel sensor.

To do that, click filter icon and search for necessary checkbox.

Fuel level is shown in percentage of total fuel volume (referring to calibration table saved in sensor's memory) and the temperature is displayed in Celsius.

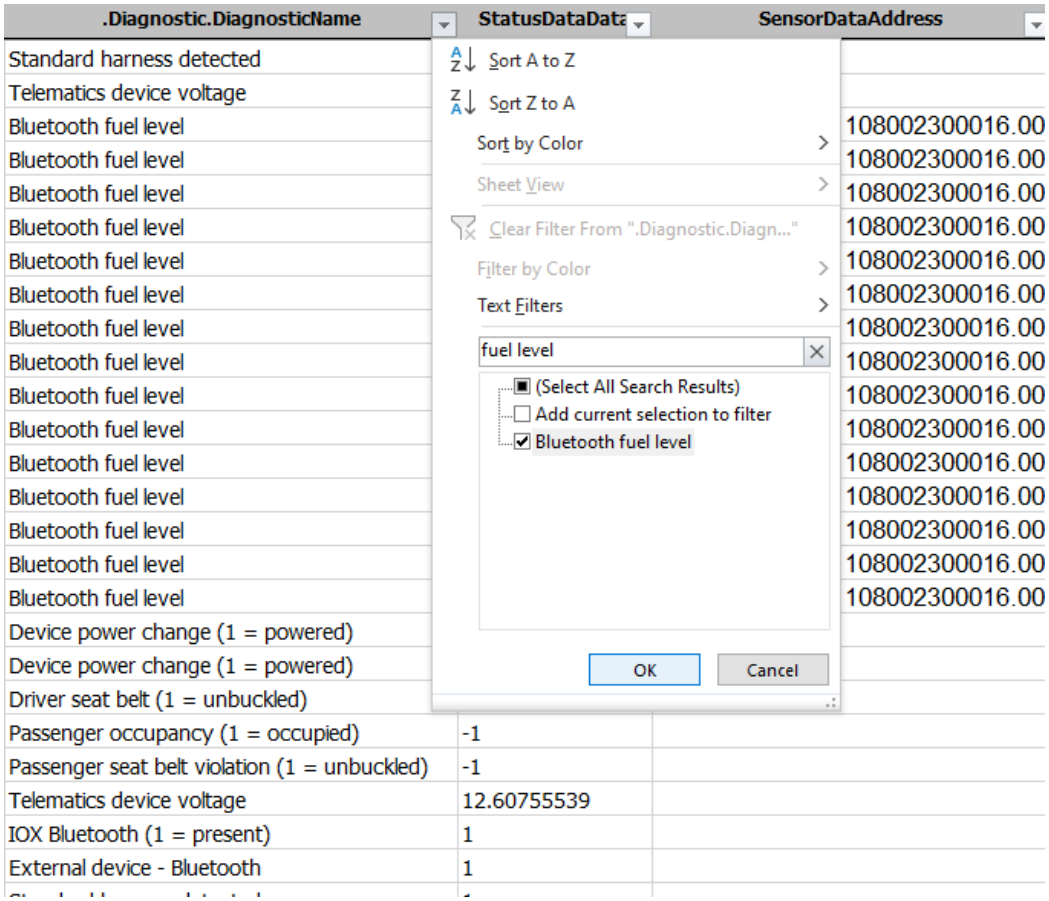


Fig. 14

In **SensorDataAddress** column select the sensor, from which the data should be displayed. The column contains the list of MAC-addresses of all sensors, which were detected by GO7 device.

To do that, click filter icon and search for necessary MAC-address. (Fig.15)

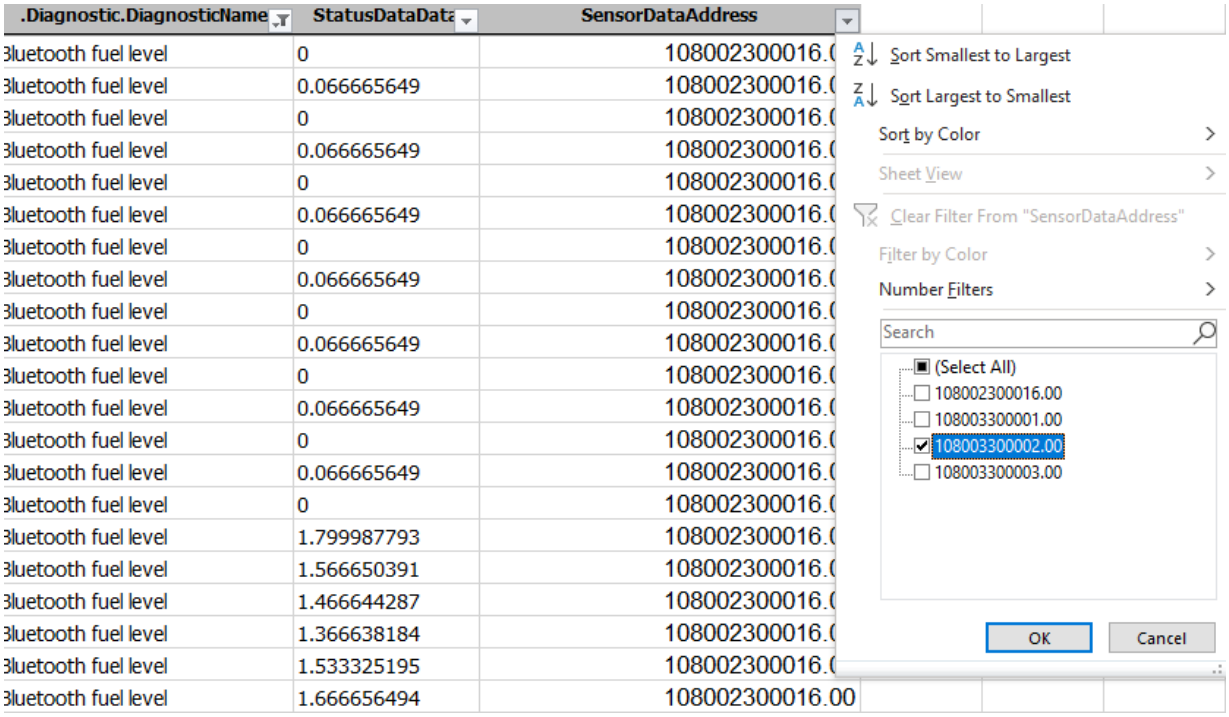
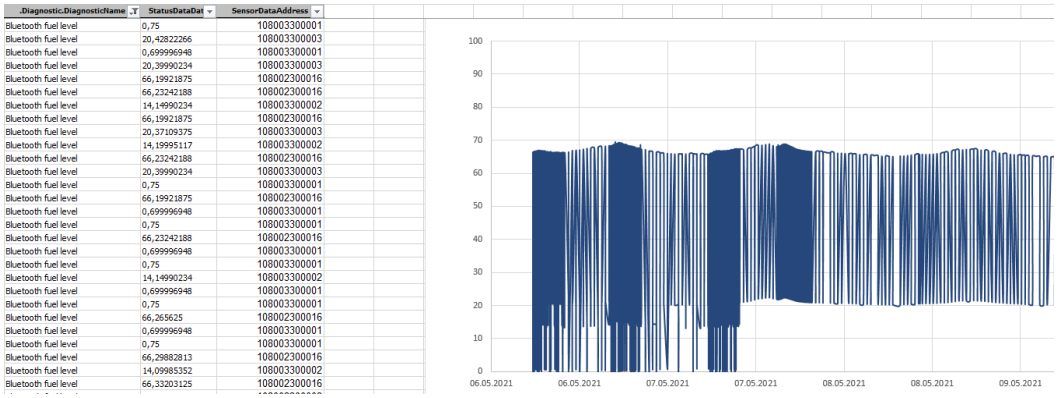


Fig. 15

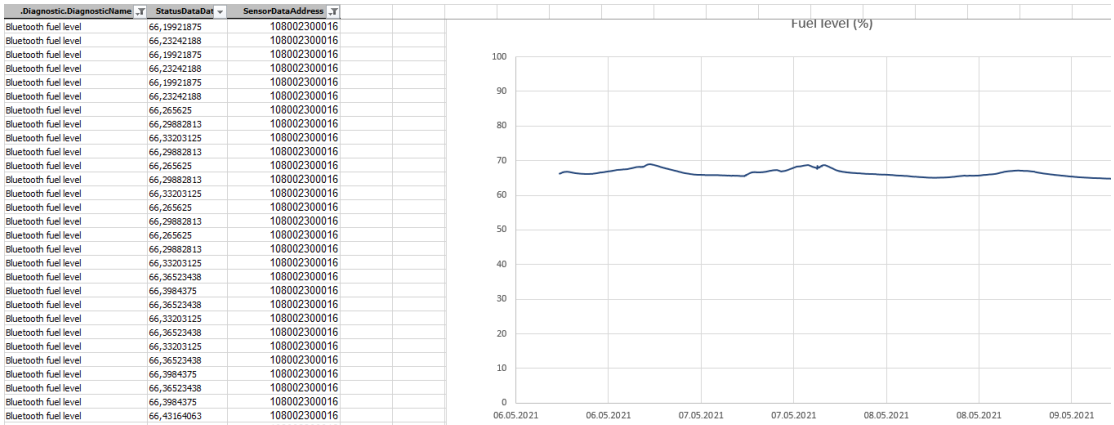
Example of a graph of fuel level from several sensors (Fig. 16)



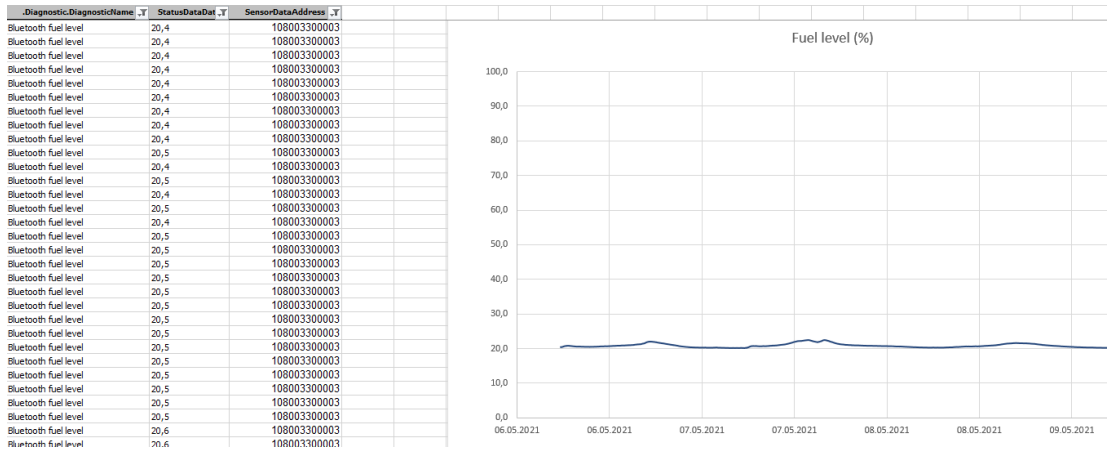
.Diagnostic.DiagnosticName	StatusDataDat	SensorDataAddress
Bluetooth fuel level	0,75	108003300001
Bluetooth fuel level	20,42822266	108003300003
Bluetooth fuel level	0,699996948	108003300001
Bluetooth fuel level	20,39990234	108003300003
Bluetooth fuel level	66,19921875	108002300016
Bluetooth fuel level	66,23242188	108002300016
Bluetooth fuel level	14,14990234	108003300002
Bluetooth fuel level	66,19921875	108002300016
Bluetooth fuel level	20,37109375	108003300003
Bluetooth fuel level	14,19995117	108003300002
Bluetooth fuel level	66,23242188	108002300016
Bluetooth fuel level	20,39990234	108003300003
Bluetooth fuel level	0,75	108003300001
Bluetooth fuel level	66,19921875	108002300016
Bluetooth fuel level	0,699996948	108003300001
Bluetooth fuel level	0,75	108003300001
Bluetooth fuel level	66,23242188	108002300016
Bluetooth fuel level	0,699996948	108003300001
Bluetooth fuel level	0,75	108003300001
Bluetooth fuel level	14,14990234	108003300002
Bluetooth fuel level	0,699996948	108003300001
Bluetooth fuel level	0,75	108003300001
Bluetooth fuel level	66,265625	108002300016
Bluetooth fuel level	0,699996948	108003300001
Bluetooth fuel level	0,75	108003300001
Bluetooth fuel level	66,29882813	108002300016
Bluetooth fuel level	14,09985352	108003300002
Bluetooth fuel level	66,33203125	108002300016

Fig. 16

Example of a graph of fuel level from single sensor (%) (Fig. 17)



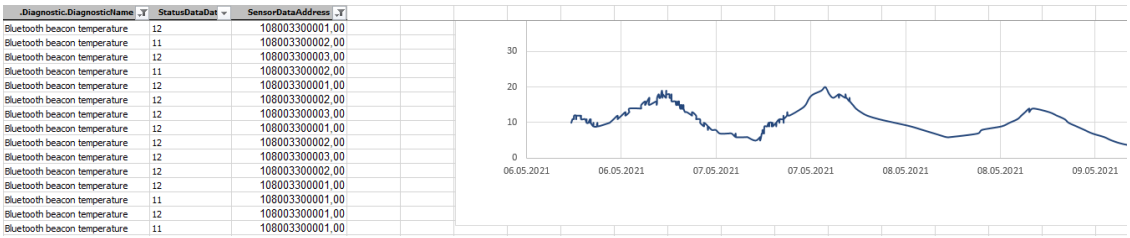
.Diagnostic.DiagnosticName	StatusDataDat	SensorDataAddress
Bluetooth fuel level	66,19921875	108002300016
Bluetooth fuel level	66,23242188	108002300016
Bluetooth fuel level	66,19921875	108002300016
Bluetooth fuel level	66,23242188	108002300016
Bluetooth fuel level	66,19921875	108002300016
Bluetooth fuel level	66,23242188	108002300016
Bluetooth fuel level	66,265625	108002300016
Bluetooth fuel level	66,29882813	108002300016
Bluetooth fuel level	66,33203125	108002300016
Bluetooth fuel level	66,29882813	108002300016
Bluetooth fuel level	66,265625	108002300016
Bluetooth fuel level	66,29882813	108002300016
Bluetooth fuel level	66,33203125	108002300016
Bluetooth fuel level	66,265625	108002300016
Bluetooth fuel level	66,29882813	108002300016
Bluetooth fuel level	66,265625	108002300016
Bluetooth fuel level	66,29882813	108002300016
Bluetooth fuel level	66,33203125	108002300016
Bluetooth fuel level	66,36523438	108002300016
Bluetooth fuel level	66,3984375	108002300016
Bluetooth fuel level	66,36523438	108002300016
Bluetooth fuel level	66,33203125	108002300016
Bluetooth fuel level	66,36523438	108002300016
Bluetooth fuel level	66,33203125	108002300016
Bluetooth fuel level	66,36523438	108002300016
Bluetooth fuel level	66,3984375	108002300016
Bluetooth fuel level	66,36523438	108002300016
Bluetooth fuel level	66,3984375	108002300016
Bluetooth fuel level	66,43164063	108002300016
Bluetooth fuel level	66,3984375	108002300016



.Diagnostic.DiagnosticName	StatusDataDat	SensorDataAddress
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,4	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,5	108003300003
Bluetooth fuel level	20,6	108003300003
Bluetooth fuel level	20,6	108003300003

Fig. 17

Example of a graph of fuel temperature (Fig.18)



.Diagnostic.DiagnosticName	StatusDataDat	SensorDataAddress
Bluetooth beacon temperature	12	108003300001,00
Bluetooth beacon temperature	11	108003300002,00
Bluetooth beacon temperature	12	108003300003,00
Bluetooth beacon temperature	11	108003300002,00
Bluetooth beacon temperature	12	108003300001,00
Bluetooth beacon temperature	12	108003300002,00
Bluetooth beacon temperature	12	108003300003,00
Bluetooth beacon temperature	12	108003300001,00
Bluetooth beacon temperature	12	108003300002,00
Bluetooth beacon temperature	12	108003300003,00
Bluetooth beacon temperature	12	108003300002,00
Bluetooth beacon temperature	12	108003300001,00
Bluetooth beacon temperature	11	108003300001,00
Bluetooth beacon temperature	12	108003300001,00
Bluetooth beacon temperature	11	108003300001,00

Fig. 18

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT TECHNTON
https://www.jv-technoton.com/contacts