Sensor management

To add new sensor (engine on/off, acc on/off, battery, fuel tank, odometer, temperature, door open/close, GSM signal, GPS signal, sattelites, tachometer, etc.) for your object, go to Object->Edit object->Sensors->Add new sensor. But before doing that, take a look below at the scheme, how parameters are sent from gps device and how they need to be **paired** with sensors.



To check what parameters your gps tracker is sending, please go to *History->Select object->Show history->Data log* (At the top there are parameter names and below - parameter values)

																									William ing	i
Tine	Letitude	Longitu de	Ahlude	Speed	CPS	priority.	i set	event	in felt in	id :	adct	istt :	104	1014	lets	107	1.164	la10	62	102	168	1012	io13	ie6	io16	1037
2014-05- 29 4653734	51.000.000 @	25/212962	152		66.67		ы	8				0	13346	4125	Mi.	24601	erenters D	×	16	4	7	26968	151	8	5632	
2514.05 25 0617.95	10100-05	252080	16		46.57	1	ч	к.				4	1995	e126	15	2621	0100004a 101	. 4	34	7	1	2008	521	1	1612	
2016-05 29 56:18:05	54.009/25 . k	25.25.452	210	11	76.75		8	0	1			ą.	14010	et)is	706	28581	510000ah 3b		и	7	14	21148	901	3	5683	
2018-05- 22 56-78-52	terrore R	25.274796 5	115	12	6135	•	a					0	14545	8147	154	2401	010000ia 62		11		16	20164	424	3	1682	
2018-45- . 29. 56:18;57	54,030335 6	25.25459	296	11	66.07		34		3	. t		0	54034	-019	105	20021	010000015 8		16		12	201946	151		1602	
2014-05 20 2015-065	34,00004	21.274000 -8	138	12	76.19		-		1			9	14152	e:24		26201	870000117 8		-	7	12	2014	121	1	100	
2016-25- 279 00/19122	sameric 6	23.23957 A	156	18.	7679							a	14025	615	1	24021	(*2000ag 34		52		12	18967	10		1922	
274-75 27 56,75.05	scoreret R	25.270D 3	12	ur.	16.15	*	16					4	14221	4244	1	2407	(7-002009- 50	1	12		14	2047	-		1622	
2014-05- 29 00:20:54	34499012 3	25.230895	111		38.57	÷	16	8			. Y	0	10992	A257	1	24101	015003e8 20	x	10	3	0	28967	191	4	1603	

There are many parameter names like "sat, adc1, io21..." etc. So if you want to create an event for parameter "sat", then you have to input sat in the parameter name field. This will pair event with parameter.

Note: some gps tracker's, like Coban GPS306 OBD, are sending parameter names that are easily recognisable(odometer, fuel, rpm, etc.), but others, like Teltonika are sending them like ioXXX. To know the meaning of parameter names like ioXXX, you need to check manufacturer's user manual/documentation or identify them manualy, for example, trigger some sensors and monitor parameters at the same time like doors open, fuel level, etc...

ACC ON/OFF

Add sensor	×
Sensor name:	
Ignition	
Sensor type:	
ACC ON/OFF	~
Parameter name:	
power	~
Unit of measurement:	
SETFLAG	
ON value:	
1	
OFF value:	
0	
Save Cancel	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- **ON value** please input parameter value to identify that acc was turned on. For example.: if parameter name is alarm: acc on, type in **acc on**
- **OFF value** please input parameter value to identify that acc was turned off. For example.: if parameter name is alarm: acc off, type in **acc off**
- Setflag is used to detect single or few characters from parameter value. Example.: 12345 is parameter value and ",34" is the value you want to use, so setflag would be: 3(starting character), 2(ammount of characters), 34(value of parameter)".

SETFLAG 🗹		
ON value:		
Starting character	Amount of characters	Value of parameter
OFF value:		
Starting character	Amount of characters	Value of parameter

Battery

Add sensor	×
Sensor name:	
GPS	
Sensor type:	
Battery	~
Parameter name:	
sat	~
Unit of measurement:	
Show value by:	
Min/Max Values	*
Min. value:	
0	
Max. value:	
21	
Save	Cancel

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor. Example: battery: 75 (visible in data log) must be selected as battery. In the exaple above "sat" is selected which means that you can use **any type** of sensors with **any type** of parameter.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- Show value by "Parameter value" parameter value will be shown.
- Show value by "Min/Max values" for example if full battery value is 5, minimum 0, please type in 5 in the max value field and 0 in the min value field, so it will automatically convert it to percentage values. For example.: if value is 5 100 will be show, if value is 4 75 will be show, if value is 0 0 will be seen.
- Show value by "Formula" parameter value can be sent from gps tracker encoded and you have to use formula to calculate battery value. For example.: if value is 2850, then you can type in formula like "([value] x 3.3)/4096", for example: ([28501] x 3.3)/4096 = 22.96 %
- **OFF value** please input parameter value to identify that acc was turned off. For example.: if parameter is alarm: acc off, type in **acc off**

Doors Open/Close

Add sensor			×
Sensor name:			
Doors			
Sensor type:			
Door Open/Close			~
Parameter name:			
adc1			~
SETFLAG			
Equals to (=)	~	Parameter value	
OFF value:			
Equals to (=)	~	Parameter value	
		Save Cancel	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- **ON value** please input parameter value to identify that acc was turned on. For example.: if parameter name is alarm: acc on, type in **acc on**
- **OFF value** please input parameter value to identify that acc was turned off. For example.: if parameter name is alarm: acc off, type in **acc off**

Engine On/Off

Add sensor			×
Sensor name:			
Engine			
Sensor type:			
Engine ON/OFF			~
Parameter name:			
power			~
SETFLAG			
Equals to (=)	~	Parameter value	
OFF value:			
Equals to (=)	~	Parameter value	
		Save Cancel	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.

- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- ON value please input parameter value to identify that acc was turned on. For example.: if parameter name is alarm: acc on, type in **acc on**
- **OFF value** please input parameter value to identify that acc was turned off. For example.: if parameter name is alarm: acc off, type in **acc off**

Engine hours

Add sensor	×
Sensor name:	
Engine hours	
Sensor type:	
Engine hours	~
Parameter name:	
io1	~
Unit of measurement:	
Save	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"

Fuel tank

Add sensor		×
Sensor name:		
Fuel tank		
Sensor type:		
Fuel tank		~
Parameter name:		
adc1		~
Unit of measurement:		
Petrol		
Parameters:		
Full tank in liters/gallons	Parameter value	
	Save Cancel	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- Fuel tank name any name like Petrol, Diesel etc.
- **Parameters** for example if tacker is sending fuel in percentage value like 100 and your car's full tank is 40 liters, then type in 40 on the left side(full tank) and 100 on the right side(parameter value), so when tracker sends parameter value 50, you will see that your car's fuel tank is 20 liters or gallons.

Fuel tank with calibration

Edit							×
		Calibration					
Sensor name:		Parameter value		Liters/Gallons			^
Fuel tank		1370					
Sensor type:		1250		1		×	
Fuel tank (with calibration)	~	1350		5		×	
Parameter name:		1450		8		×	
adc1	~	1800		15		×	
Unit of measurement:							
L		2100		40		×	
Fuel tank name:							
Petrol							
							-
		Parameter value	2100 Liters/Gallo	40	Add		
				s	ive	Cancel	
					and the second		

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- Fuel tank name any name like Petrol, Diesel etc.
- **Calibration** gps trackers can send fuel level in voltages or any other values, therefore calibration is needed. Above is example of parameter value and matching liters/gallons value. It is best to start calibration with full tank and check parameter value and then move on with empty fuel tank and check parameter value again.

GSM

Add sensor	×
Sensor name:	
GSM	
Sensor type:	
GSM	~
Parameter name:	
adc1	~
Unit of measurement:	
96	
Min. value:	
0	
Max. value:	
21	
Save Cancel	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- Show value by "Min/Max values" for example if full battery value is 5, minimum 0, please type in 5 in the max value field and 0 in the min value field, so it will automatically convert it to percentage values. For example.: if value is 5 100 will be show, if value is 4 75 will be show, if value is 0 0 will be seen.

Harsh acceleration and harsh braking

Add sensor	\times
Sensor name:	
HA	
Sensor type:	
Harsh acceleration	~
Parameter name:	
io1	~
Unit of measurement:	
SETFLAG	
Parameter value:	
Save Cancel	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- **Parameter value** value for detecting harsh acceleration or braking. Once values configured, you can then generate driver behavior report: Tools->Reports->RAG

Ignition ON/OFF

Add sensor			×
Sensor name:			
Ignition			
Sensor type:			
Ignition ON/OFF			~
Parameter name:			
adc1			~
ON value:	~	Parameter value	
OFF value:			
Equals to (=)	~	Parameter value	
		Save Cancel	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- **ON value** please input parameter value to identify that acc was turned on. For example.: if parameter name is alarm: acc on, type in **acc on**
- **OFF value** please input parameter value to identify that acc was turned off. For example.: if parameter name is alarm: acc off, type in **acc off**

Odometer (connected and virtual)

Add sensor	×
Sensor name:	
Odometer	
Sensor type:	
Odometer	~
Parameter name:	
raw	~
Unit of measurement:	
km	
Odometer:	
Connected odometer	~
Formula:	
[value]	
Example: ([value] * 3.3)/4096	
Save Cancel	

Add sensor		×
Sensor name:		
Odometer		
Sensor type:		
Odometer		~
Unit of measurement:		
km		
Odometer:		
Virtual odometer		~
Value:		
50000	Km	
	Save	Cancel

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example you can define km or mi
- **Odometer** if you selected connected odometer, please pair it with parameter that is responsible for connected odometer value, otherwise please select Virtual Odometer.
- Forumula value can be sent in meter, kilometers, miles, feets, etc., so using formula you can apply correct calculations.

Satellites

Add sensor		×
Sensor name:		
Sat		
Sensor type:		
Satellites		~
Parameter name:		
sat		~
Unit of measurement:		
70		
	Com.	Canad
	Save	Cancel

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"

Tachometer/RPM or temperature

Add sensor	×
Sensor name:	
Sensor type:	
Tachometer	~
Parameter name:	
priority	~
Unit of measurement:	
Formula:	
[value]	
Example: ([value] * 3.3)/4096	
Save	

- Sensor name in this field you can write in any name you like. This name will appear as sensor name in object details panel when you click on the object.
- Sensor type this is type of sensor, each sensor type has different parameters input options and behaviour.
- **Parameter name** parameter names are identified automatically once gps tracker is connected to the platform, select the coresponding parameter that matches your sensor.
- Unit of measurement this text will be showed near value, for example, if you define battery sensor, then you can type in % as unit of measurement, then you will see battery sensor like "battery: 25%"
- Forumula using formula you can apply correct calculations.