

EDITING THE ODOMETER SENSOR FORMULA

Why doesn't the Odometer on my zzootaLink sensor dashboard match the vehicle?

Sometimes we can't remotely access the existing odometer data from the vehicle. This requires the existing kilometers to be added to the odometer formula.

This presentation will guide you to the Odometer sensor formula and make amendments to update the sensor dashboard on zzootaLink.

In the following example our starting figure is an actual odometer reading of 37752km.



STEP 1

To begin log into the zzoataLink platform and navigate to the Main page.

The screenshot displays the ZZOOTA web interface. At the top left is the ZZOOTA logo. The main area is a map of Brisbane, Australia, with various suburbs and landmarks labeled. A sidebar on the left contains a search bar with 'zzoota e' and a list of objects: 'Ungrouped (1)' and 'zzoota example' (dated 20-02-2021 12:38:21). The bottom panel shows detailed data for the 'zzoota example' vehicle, which is currently offline.

zzoota example		Sensors		Services	
Address:		GSM	94 %	# VIN	WBA3R1209...
Time:	20-02-2021 12:38:21	Ignition	On	# Avg. Speed	0 Km/h
Stop duration:	12+h	Engine Hours	41.36 h	# Avg. Fuel	0 L/100Km
Driver:	-	Odometer	3201 Km	# RPM	65535
				# Battery	3.17 Volts
				Speed	0 kph
				Temperature	175 C
				15000km service	Odometer

STEP 2

Make a note of the current virtual odometer.

For this vehicle it is **3201 km**.

This is the distance the vehicle has travelled since the zzoota device was installed.

The screenshot displays the ZZOOTA web application interface. At the top left is the ZZOOTA logo. Below it is a navigation menu with 'Objects', 'Events', and 'History' tabs. The 'Objects' tab is active, showing a search bar with 'zzoota e' and a list of objects: 'Ungrouped (1)' and 'zzoota example' (dated 20-02-2021 12:38:21). The main area is a map of Brisbane, Australia, with a red location pin on the Brisbane River. At the bottom, a data panel for 'zzoota example' (marked as 'Offline') is shown. A red arrow points to the 'Odometer' value of 3201 Km in the 'Sensors' section.

zzoota example		Sensors		Services					
Address:		GSM	94 %	VIN	WBA3R1209...	RPM	65535	15000km service	Odometer
Time:	20-02-2021 12:38:21	Ignition	On	Avg. Speed	0 Km/h	Battery	3.17 Volts		
Stop duration:	12+h	Engine Hours	41.36 h	Avg. Fuel	0 L/100Km	Speed	0 kph		
Driver:	-	Odometer	3201 Km	Temperature	175 C				

STEP 3

Choose the device in the Navigation panel and select the Overflow menu “⋮”.

The screenshot displays the ZZOOTA web application interface. At the top left, the ZZOOTA logo is visible. Below it, there are tabs for 'Objects', 'Events', and 'History'. The 'Objects' tab is active, showing a search bar with 'zzoota e' and a list of objects. The first object is 'Ungrouped (1)' and the second is 'zzoota example' with a timestamp of '20-02-2021 12:38:21'. To the right of the list is a search icon and a plus sign icon. Below the list is a speed indicator showing '0 kph' and a red dot. A red arrow points to the overflow menu icon (three vertical dots) next to the 'zzoota example' entry.

The main area of the interface is a map of Brisbane, Australia, showing various suburbs and the Brisbane River. The map is centered on the city center. At the bottom of the interface, there is a data panel for the selected device 'zzoota example'. The device is marked as 'Offline'. The data panel is divided into three sections: 'Address', 'Sensors', and 'Services'.

zzoota example		Offline	Sensors				Services			
Address:			GSM	94 %	# VIN	WBA3R1209...	# RPM	65535	15000km service	Odometer
Time:	20-02-2021 12:38:21		Ignition	On	# Avg. Speed	0 Km/h	Battery	3.17 Volts		
Stop duration:	12+h		Engine Hours	41.36 h	# Avg. Fuel	0 L/100Km	Speed	0 kph		
Driver:	-		Odometer	3201 Km	Temperature	175 C				

STEP 4

Select "Edit".

The screenshot displays the ZZOOTA web application interface. At the top left, the ZZOOTA logo is visible. Below it, there are tabs for 'Objects', 'Events', and 'History'. The 'Objects' tab is active, showing a list of objects: 'zzoota e' with a search icon and a plus sign, 'Ungrouped (1)', and 'zzoota example' (20-02-2021 12:38:21) with a speed indicator of 0 kph and a red dot. A context menu is open over the 'zzoota example' object, with a red arrow pointing to the 'Edit' option. The menu items are: Show history (last hour), Show history (today), Show history (yesterday), Follow, Send command, Edit, Sharing, and Checklist QR Code. The background is a map of Brisbane, Australia, showing the Brisbane River and various suburbs. At the bottom, a data panel for 'zzoota example' (Offline) shows various sensors and their values:

zzoota example		Offline	Sensors					
Address:			GSM	94 %	# VIN	WBA3R1209...	# RPM	65535
Time:	20-02-2021 12:38:21		Ignition	On	# Avg. Speed	0 Km/h	Battery	3.17 Volts
Stop duration:	12+h		Engine Hours	41.36 h	# Avg. Fuel	0 L/100Km	Speed	0 kph
Driver:	-		Odometer	3201 Km	Temperature	175 C		

STEP 5

Select "Sensors".

The screenshot displays the ZZOOTA mobile application interface. At the top left, the ZZOOTA logo is visible. The main screen shows a map with various locations labeled, such as Mitchelton, Gaythorne, Ashgrove, and Woolloongabba. A list of objects is shown on the left side, including 'zzoota e', 'Ungrouped (1)', and 'zzoota example'. A modal dialog titled 'Edit' is open in the center, with tabs for 'Main', 'Icons', 'Advanced', 'Sensors', 'Services', 'Accuracy', 'Tail', and 'Cameras'. The 'Sensors' tab is selected, and a red arrow points to it. The 'Edit' dialog contains the following fields:

- Active
- User*: training@zzoota.com
- Name*: zzoota example
- Device IMEI / Tracker ID: 869951031155111
- Expiration date:

At the bottom of the dialog are three buttons: 'Save', 'Cancel', and 'Delete'. The background map shows a street view of Brisbane, Queensland, Australia. At the bottom of the screen, there is a summary card for the selected object 'zzoota example', which is currently 'Offline'. The card displays various sensor data points:

Sensors					
GSM	94 %	VIN	WBA3R1209...	RPM	65535
Ignition	On	Avg. Speed	0 Km/h	Battery	3.17 Volts
Engine Hours	41.36 h	Avg. Fuel	0 L/100Km	Speed	0 kph
Odometer	3201 Km	Temperature	175 C		

STEP 6

Select the settings cog for the Odometer sensor.

The screenshot shows the ZZOOTA application interface. At the top left, the ZZOOTA logo is visible. Below it, there are tabs for 'Objects', 'Events', and 'History'. A search bar and a '+ Add sensor' button are also present. The main area displays a map with various locations labeled, including Mitchelton, Gaythorne, Ashgrove, Hemmant, Wynnun West, Murarrie, Tingalpa, Westfield Carindale, Belmont, and Chandler. A white 'Edit' dialog box is open in the center, with tabs for 'Main', 'Icons', 'Advanced', 'Sensors', 'Services', 'Accuracy', 'Tail', and 'Cameras'. The 'Sensors' tab is selected, showing a list of sensors with their names and templates. The 'Odometer' sensor is highlighted, and a red arrow points to its settings cog icon. Below the list, there is a 'Sensor group' dropdown menu set to 'None'. At the bottom of the dialog, there are 'Save', 'Cancel', and 'Delete' buttons. The background shows a detailed view of the 'zzoota example' vehicle, which is currently 'Offline'. The vehicle's status and sensor data are displayed in a table format.

zzoota example		Sensors		Services					
Address:	[Redacted]	GSM	94 %	VIN	WBA3R1209...	RPM	65535	15000km service	Odometer
Time:	20-02-2021 12:38:21	Ignition	On	Avg. Speed	0 Km/h	Battery	3.17 Volts		
Stop duration:	12+h	Engine Hours	41.36 h	Avg. Fuel	0 L/100Km	Speed	0 kph		
Driver:	-	Odometer	3201 Km	Temperature	175 C				

STEP 7

Note the default formula.

$[value]/1000$

Values to remember:

1. The actual odometer reads 37752 km
2. The current virtual odometer is 3201 km

Edit

Sensor name: Odometer

Sensor template: Odometer

Parameter name: totaldistance

Unit of measurement: Km

Odometer: Connected odometer

Formula: [value]/1000

Example: ([value] * 3.3)/4096

%SETFLAG[D1,D2]% - is used to detect single or few characters from parameter value. D1 - starting character. D2 - amount of characters. Example: (%SETFLAG[D1,D2]) * 3.3)/4096

Add to history

Save **Cancel**

zzoota example		Sensors		Services					
Address:		GSM	94 %	VIN	WBA3R1209...	RPM	65535	15000km service	Odometer
Time:	20-02-2021 12:38:21	Ignition	On	Avg. Speed	0 Km/h	Battery	3.17 Volts		
Stop duration:	12+h	Engine Hours	41.36 h	Avg. Fuel	0 L/100Km	Speed	0 kph		
Driver:	-	Odometer	3201 Km	Temperature	175 C				

The new formula is

$$([\text{value}]/1000)+(x - y)$$

x = actual vehicle odometer

y = current virtual odometer

$$([\text{value}]/1000)+(37752 - 3201)$$

$$([\text{value}]/1000)+34551$$

Insert this new formula into the Formula field.

Edit

Sensor name: Odometer

Sensor template: Odometer

Parameter name: totaldistance

Unit of measurement: Km

Odometer: Connected odometer

Formula: `([value]/1000)+34551`

Example: `([value] * 3.3)/4096`

%SETFLAG[D1,D2]% - is used to detect single or few characters from parameter value. D1 - starting character. D2 - amount of characters. Example: `(%SETFLAG[D1,D2])% * 3.3)/4096`

Add to history

Save **Cancel**

zzoota example		Sensors		Services					
Address:	20-02-2021 12:38:21	GSM	94 %	VIN	WBA3R1209...	RPM	65535	15000km service	Odometer
Time:	12+h	Ignition	On	Avg. Speed	0 Km/h	Battery	3.17 Volts		
Stop duration:	-	Engine Hours	41.36 h	Avg. Fuel	0 L/100Km	Speed	0 kph		
Driver:	-	Odometer	3201 Km	Temperature	175 C				

STEP 8

Select "Save".

The screenshot shows the ZZOOTA interface with an 'Edit' dialog box open. The dialog contains the following fields and options:

- Sensor name:** Odometer
- Sensor template:** Odometer
- Parameter name:** totaldistance
- Unit of measurement:** Km
- Odometer:** Connected odometer
- Formula:** `((value)/1000)+34551`
Example: `((value) * 3.3)/4096`
- Help text:** %SETFLAG[D1,D2]% - is used to detect single or few characters from parameter value. D1 - starting character. D2 - amount of characters. Example: `(%SETFLAG[D1,D2])% * 3.3)/4096`
- Add to history:**
- Buttons:** Save, Cancel

A red arrow points to the 'Save' button. In the background, the 'zzoota example' sensor details are visible, including fields for Address, Time, Stop duration, and Driver, as well as a 'Sensors' table.

Sensor	Status	Value	Unit	Value	Unit	Value	Unit
GSM	94 %	# VIN	WBA3R1209...	# RPM	65535	15000km service	Odometer
Ignition	On	# Avg. Speed	0 Km/h	Battery	3.17 Volts		
Engine Hours	41.36 h	# Avg. Fuel	0 L/100Km	Speed	0 kph		
Odometer	3201 Km	Temperature	175 C				

STEP 9

Select "Save" again.

The screenshot shows the ZZOOTA application interface. In the foreground, an 'Edit' dialog box is open, displaying the 'Sensors' tab. The dialog contains a table of sensor configurations:

Sensor name	Sensor template		
Harsh Deceleration	Harsh braking	⚙️	✕
Battery	Battery	⚙️	✕
RPM	Textual	⚙️	✕
Temperature	Temperature	⚙️	✕
Avg. Fuel	Numerical	⚙️	✕
Avg. Speed	Textual	⚙️	✕
VIN	Textual	⚙️	✕
Harsh Acceleration	Harsh acceleration	⚙️	✕
Odometer	Odometer	⚙️	✕
Engine Hours	Engine hours	⚙️	✕

Below the table, there is a 'Sensor group:' dropdown menu set to 'None'. At the bottom of the dialog, there are three buttons: 'Save' (black), 'Cancel' (grey), and 'Delete' (red). A red arrow points to the 'Save' button.

The background shows the ZZOOTA main interface with a map, a sidebar on the left, and a data panel at the bottom. The sidebar lists 'zzoota e' and 'zzoota example'. The data panel shows details for 'zzoota example', including address, time, stop duration, driver, and various sensor readings like GSM, Ignition, Engine Hours, Odometer, VIN, Avg. Speed, Avg. Fuel, Temperature, RPM, and Battery.

The new formula has now been updated.

IMPORTANT : The browser **MUST** be refreshed to update the Sensor dashboard.

The screenshot displays the ZZOOTA web application interface. At the top left is the ZZOOTA logo. Below it is a navigation menu with 'Objects', 'Events', and 'History' tabs. A search bar contains 'zzoota e'. A list of objects shows 'Ungrouped (1)' and 'zzoota example' (20-02-2021 12:38:21) with a speed of 0 kph. The main area is a map of Brisbane, Australia, with a green notification banner at the top right that says 'Successfully updated device'. At the bottom, a sensor dashboard for 'zzoota example' (Offline) is shown. A red arrow points to the 'VIN' field in the dashboard.

zzoota example		Sensors		Services					
Address:		GSM	94 %	# VIN	WBA3R1209...	# RPM	65535	15000km service	Odometer
Time:	20-02-2021 12:38:21	Ignition	On	# Avg. Speed	0 Km/h	Battery	3.17 Volts		
Stop duration:	12+h	Engine Hours	41.36 h	# Avg. Fuel	0 L/100Km	Speed	0 kph		
Driver:	-	Odometer	3201 Km	Temperature	175 C				

STEP 10

Refresh the browser.

The screenshot shows the ZZOOTA web application interface. The browser window displays the URL `track.zzoota.com` and the date `Fri 12 Mar 12:12 pm`. The main content is a map of Brisbane, Australia, with a red arrow pointing to a location near Hendra. The left sidebar shows a list of objects, including `zzoota e` and `zzoota example`. The bottom panel displays vehicle data for `zzoota example`.

zzoota example		Sensors		Services					
Address:		GSM	94 %	# VIN	WBA3R1209...	# RPM	65535	15000km service	Odometer
Time:	20-02-2021 12:38:21	Ignition	On	# Avg. Speed	0 Km/h	Battery	3.17 Volts		
Stop duration:	12+h	Engine Hours	41.36 h	# Avg. Fuel	0 L/100Km	Speed	0 kph		
Driver:	-	Odometer	3201 Km	Temperature	175 C				

The Odometer reading has now been updated.

Note : Over time you may have some discrepancies between the odometer on the vehicle and the odometer on the zzootaLink dashboard.

The screenshot displays the ZZoota interface. On the left, a sidebar shows a list of objects under the heading 'zzoota e'. Two objects are listed: 'Ungrouped (1)' and 'zzoota example' (dated 20-02-2021 12:38:21) with a speed of 0 kph. The main area features a map of Brisbane, Australia, with various suburbs and landmarks labeled. At the bottom, a data table provides details for the selected vehicle 'zzoota example', which is marked as 'Offline'. The table includes fields for Address, Time, Stop duration, and Driver. A 'Sensors' section lists various metrics: GSM (94%), Ignition (On), Engine Hours (41.36 h), Odometer (37752 Km), RPM (65535), Avg. Speed (0 Km/h), Avg. Fuel (0 L/100Km), Battery (3.17 Volts), and Speed (0 kph). A red arrow points to the Odometer reading of 37752 Km. A 'Services' section on the right shows '15000km service' and 'Odometer'.

zzoota example		Offline	Sensors				Services				
Address:			GSM	94 %	#	WBA3R1209...	#	RPM	65535	15000km service	Odometer
Time:	20-02-2021 12:38:21		Ignition	On	Avg. Speed	0 Km/h	Battery	3.17 Volts			
Stop duration:	12+h		Engine Hours	41.36 h	Avg. Fuel	0 L/100Km	Speed	0 kph			
Driver:	-		Odometer	37752 Km	Temperature	175 C					

END OF PRESENTATION