Guía Rápida de Conexión Sensores BLE en Equipos Teltonika.

A continuación se mostrara de manera rápida como configurar sensores BLE (Bluetooth) de manera rápida y sencilla en equipos GPS de la marca Teltonika.

Para esto necesitara leer la MAC del sensor que deseamos configurar en nuestro equipo, podrá leerla directamente desde el código QR que trae impreso el dispositivo o bien conectándolo vía BT desde nuestro teléfono celular y usando la **EYE APP**:

https://wiki.teltonika-gps.com/view/File:QR.jpg









*iOS doesn't show devices with iBeacon protocol



Una vez que tengamos la MAC de nuestro sensor procedemos a la configuración de nuestro equipo GPS, para eso requeriremos el software de configuración el cual podrá encontrar desde el área de descargas del producto en nuestro portal de SYSCOM:

Con el equipo conectado a nuestra computadora y el software abierto nos vamos a la pestaña de **System**, ahí buscaremos la casilla de **Data Protocol** y seleccionaremos **Codec 8 Extended**. El siguiente paso es irnos a la casilla de **Bluetooth 4.0**, ahí es donde podremos dar de alta nuestros sensores BLE, los ajustes recomendados en **Common Settings** son los siguientes, de igual manera se recomienda ajustar la potencia de nuestro sensor al nivel deseado de acuerdo a la distancia del mis con respecto al equipo GPS:

System GPRS	Common settings	
Data Acquisition	Disable	Enable
SMS \ Call Settings	Sensors and Beacons Undate free	auenov 30 ^
GSM Operators	BLE Scan duration	30 *
Features	Scan retries until error	30 🗢
Accelerometer Features	BT Power Level	50 🗸
Auto Geofence	1	2
Manual Geofence	3	4
Trip \ Odometer	5	6
Bluetooth	7	0
Bluetooth 4.0		
Reacon List	BLE broadcasting service ID	
Authorization ID List	BLE connection control	
I/O	Prohibit	Allow

El siguiente paso a seguir es editar nuestro sensor, seleccionamos el modo avanzado, en **settings** colocaremos la **MAC** de nuestro sensor y al final seleccionaremos el **PRESET** de acuerdo a la marca y modelo de sensor que vayamos a usar:

Accelerometer Features	BLE connectionless function	alities 🚺							
Auto Geofence	Connection #1								
Manual Geofence	Mode		Settings						
Trip \ Odometer	Working mode		MAC						
Bluetooth	Disabled	TZ-BT04/05/05B sens	or Data dea	specied (s) 0	~				
Bluetooth 4.0	Advanced								
Beacon List									
<u> </u>	1st Sensor								
OBD II	Turne	Data Offret	Data Size	Action	10	Match	Endianess	Eo Multiplier	
CAN Adapter	-9pc		0 ^	Match Y	None Y		Little Endian	1 *	0 ^
		0 🇢	0 🇢	Match Y	None Y		Little Endian	1 0	0 \$
		0 🇢	0 🗢	Match 🗸	None 🗸		Little Endian 🗸	1 \$	0 \$
		0 🗘	0 🗘	Match 🗸	None 🗸		Little Endian 🗸	1 🗘	0 \$
		0 🗢	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 \$	0 \$
		0 🗢	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 \$	0 \$
		0 🗢	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 \$	0 \$
		0 🗢	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
		0 ♦	0 🌩	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘
		0 🗢	0 🗢	Match 🗸	None 🗸		Little Endian 🗸 🗸	1 🗘	0 🗘

nnection #1												
Mode		Settings										
Working mode		MAC				Preset Selection	n					
	TZ-BT04/05/05B sens	or Data clear	r period (s)	0	~	Select a preset from a list	t					
						escort luminosity ×						
						escort luminosity × escort temperature ×						
Sensor	-					escort luminosity × escort temperature × Escort_DU-BLE_Angle_ser	nsor x					
Sensor	-					escort luminosity × escort temperature × Escort_DU-BLE_Angle_se EYE SENSOR + Eddytstor	nsor ×	_				
: Sensor	Data Offset	Data Size	Action		10	escort luminosity × escort temperature × Escort_DU-BLE_Angle_sei EYE SENSOR + Eddytstor EYE SENSOR + iBeacon :	nsor × ne × ×	liane		Multiplier	Ŀ	Offset
Sensor	Data Offset	Data Size	Action Match	~	IO None	escort luminosity × escort temperature × Escort_DU-BLE_Angle_sei EYE SENSOR + Eddytstor EYE SENSOR + iBeacon ; EYE SENSOR ×	nsor × ne × ×	liane e En an	~	Multiplier	1 🗘	Offset
Sensor	Data Offset	Data Size 0 ♀ 0 ♀	Action Match Match	~	IO None None	escort luminosity × escort temperature × Escort_DU-BLE_Angle_sei EYE SENSOR + Eddytstor EYE SENSOR + iBeacon : EYE SENSOR ×	nsor × ne × ×	fiane le En an le En an	~	Multiplier	1 ¢	Offset

Para finalizar nos vamos al apartado de I/O y activamos los eventos que queremos que nos envié el equipo a plataforma y con qué tipo de prioridad los necesitamos:

	0.00					- L GUINE	 • v	• v	Crush	10.5	110		
Trip \ Odometer	ct Temperature #1	°C	None	Low	High	Panic	0 🧘	0 🗢	Crash	Yes	No	Monitoring 🗸	Ī
Bluetooth	BLE Temperature #2	°C	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	T
Bluetooth 4.0	BLE Temperature #3	°C	None	Low	Hiah	Panic	0 🗘	0 🗢	Crash	Yes	No	Monitoring ~	t
Beacon List	BLE Temperature #4	°C	None	Low	High	Panic	0 🗘	0 🇢	Crash	Yes	No	Monitoring V	t
1/0	BLE Battery #2	%	None	Low	High	Panic	0 🗘	0 🗢	Crash	Yes	No	Monitoring ~	t
	BLE Battery #3	%	None	Low	High	Panic	0 👶	0 🗘	Crash	Yes	No	Monitoring ~	t
CAN Adapter	BLE Battery #4	%	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	t
	BLE Humidity #1	%RH	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	1
	BLE Humidity #2	%RH	None	Low	High	Panic	0 🗘	0 🌩	Crash	Yes	No	Monitoring ~	Ī
	BLE Humidity #3	%RH	None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	
	BLE Humidity #4	%RH	None	Low	High	Panic	0 💠	0 🗘	Crash	Yes	No	Monitoring ~	•
	Network Type		None	Low	High	Panic	0 🗘	0 🗢	Crash	Yes	No	Monitoring ~	
	BLE 1 Custom 1		None	Low	High	Panic	0 🗘	0 💠	Crash	Yes	No	Monitoring ~	•
	BLE 1 Custom 2		None	Low	High	Panic	0 🗘	0 🗢	Crash	Yes	No	Monitoring ~	
	BLE 1 Custom 3		None	Low	High	Panic	0 🗘	0 💠	Crash	Yes	No	Monitoring ~	
	BLE 1 Custom 4		None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	1
	BLE 1 Custom 5		None	Low	High	Panic	0 🔹	0 🛟	Crash	Yes	No	Monitoring ~	1
	BLE 2 Custom 1		None	Low	High	Panic	0 🗘	0 🛟	Crash	Yes	No	Monitoring ~	1
	BLE 2 Custom 2		None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring ~	1
	BLE 2 Custom 3		None	Low	High	Panic	0 🗘	0 🗘	Crash	Yes	No	Monitoring 🗸	1
								·					1

Departamento de ingeniería Syscom

Ing. Mario Alberto Durán Contreras

Ext. 8214

Mario.duran@syscom.mx