KTELTONIKA FMNG6 FMB6

Professional trackers

How to connect tracker to Carrier reefers



Figure 1 Panel cover



Figure 2 Fuse panel stickers location



Unscrew the panel screws marked in the picture and open the panel cover:



Figure 3 Location of the screws



The picture below displays the location of the electric panel where connectors can be found:



Figure 4 The main connector location



All of the the connectors displayed in screenshot, find the marked connector:

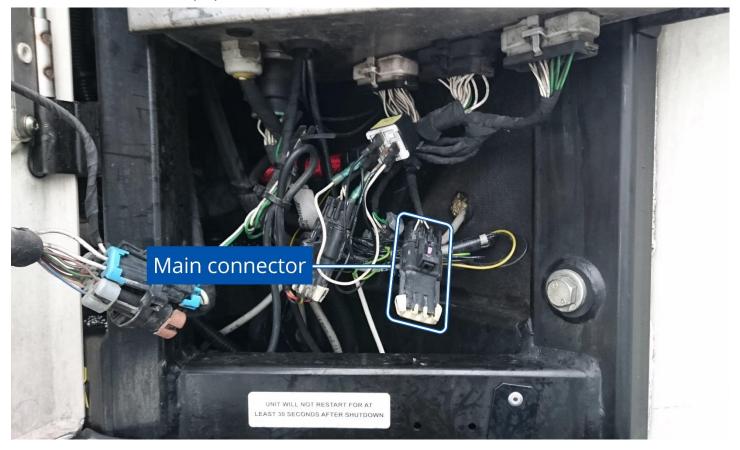


Figure 5 The main connector location close view



The connector should have a cap attached as displayed in the close up screenshot, unclip the cap.

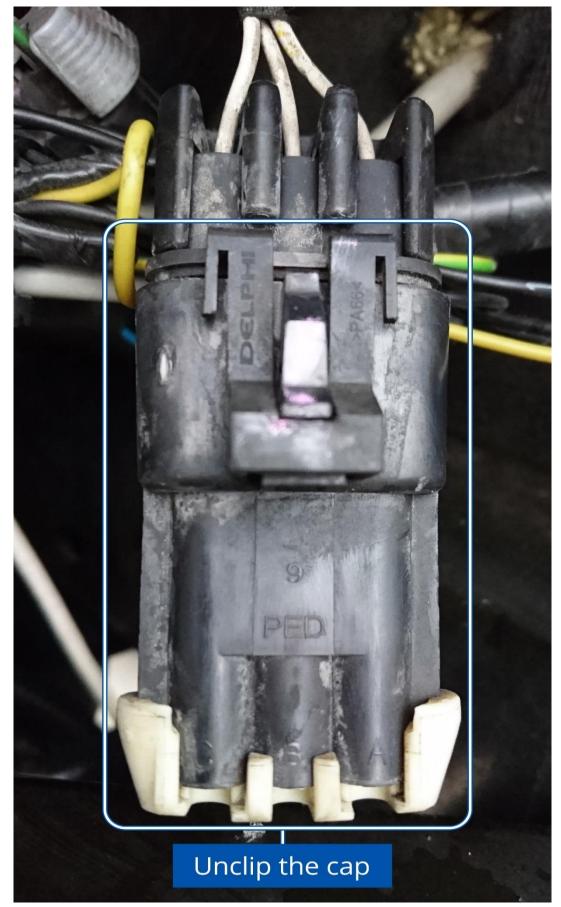


Figure 6 The main connector cap



The principle connection scheme with "Carrier Special Cable" and FMB640/FMC640/FMM640 devices is portrayed below:

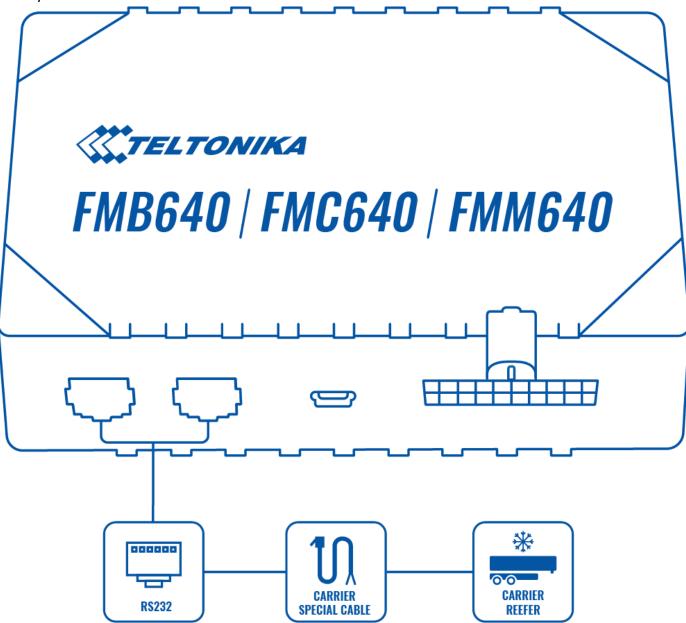


Figure 7 The principle connection scheme

*- to get more information on "Carrier Special Cable", please contact your local sales manager. Description of Carrier reefer cable can be found in our official website <u>here</u>.



Devices can be installed in the panel as displayed in this example:

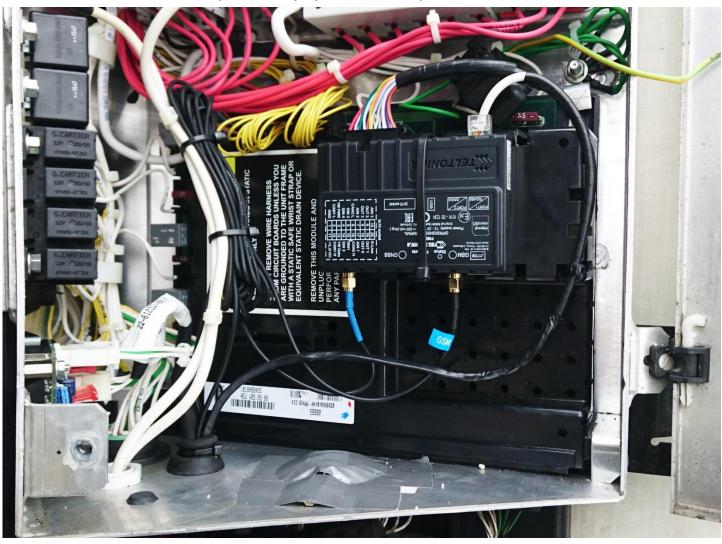


Figure 8 An example of tracking device installed in the panel



Device's wires lead down through gasket to the connector as displayed below:

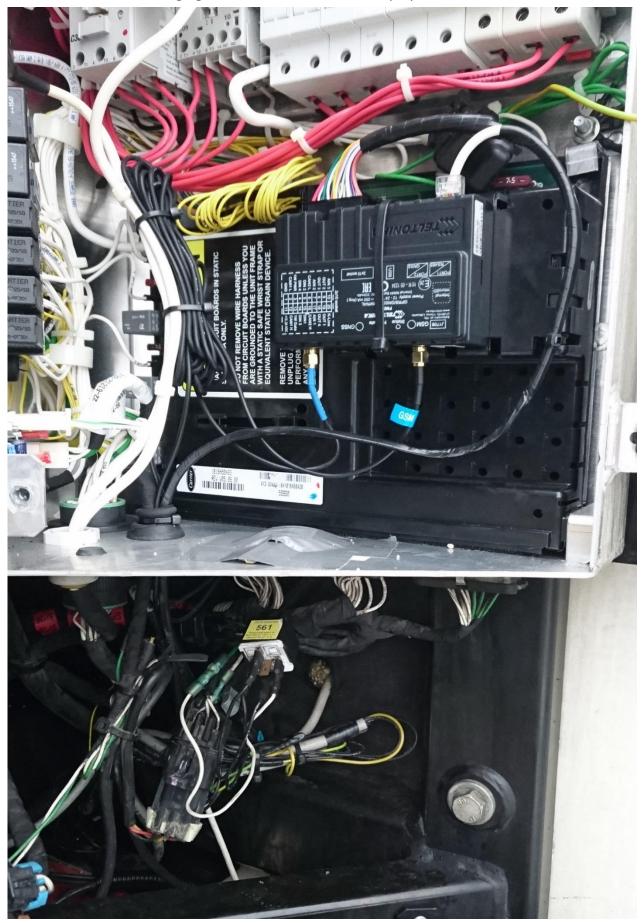


Figure 9 An example of tracking device installed in the panel full view



Connect the tracker's wires to the main connector in the electric panel exactly as shown below. Wires marked in the screenshot (RS232 GND(Black), RS232 TX (Orange/Blue), RS232 RX(Yellow/Green)).

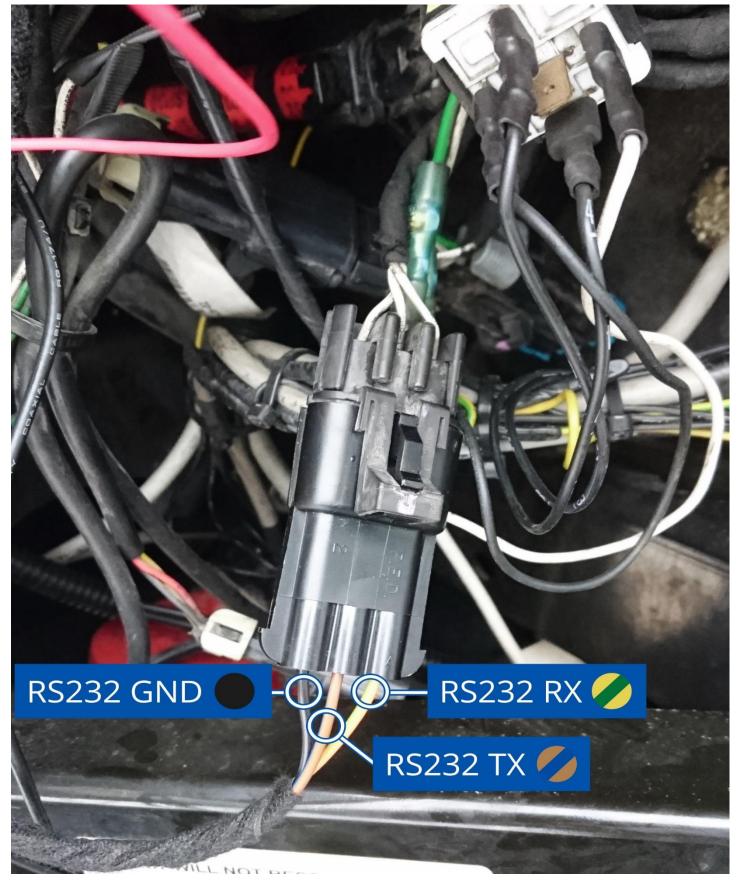


Figure 10 The connection of the tracking device's wires to the main connector



Make sure FM6 device is configured to receive data from "Carrier Reefer". To do this, enter the configurator window, select **RS232 \ RS485** section displayed in the screenshot below and configure accordingly (**COM1** Settings, Mode "**Carrier Reefer**", Baudrate: **9600**)

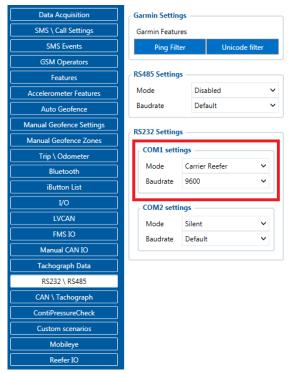


Figure 11 The configurator's RS232 \ RS485 settings section

The screenshot below displays **Reefer I/O** parameters section, here you can set up your device to send required parameters.

Security	reefer									
System	Input Name	Priority				Low Level	High Level	Event Only		Operand
GPRS	Zone1 Return Air Temperature 1	None	Low	High	Panic	0 🗘	0 🌩	Yes	No	Monitoring ~
Data Acquisition	Zone1 Return air temperature 2	None	Low	High	Panic	0 🗘	0 🌩	Yes	No	Monitoring V
SMS \ Call Settings	Zone1 Supply Air Temperature 1	None		-	Panic	0 ¢	0 🗘	Yes	No	Monitoring V
SMS Events			Low	High						
GSM Operators	Zone1 Supply air temperature 2	None	Low	High	Panic	0 🗘	0 🗢	Yes	No	Monitoring ~
Features	Zone1 Set Temperature	None	Low	High	Panic	0 🗘	0 🗢	Yes	No	Monitoring ~
Accelerometer Features	Zone2 Supply air temperature 1	None	Low	High	Panic	0 🗘	0 🗢	Yes	No	Monitoring 🗸
Auto Geofence	Zone2 Return air temperature 1	None	Low	High	Panic	0 🗘	0 🗘	Yes	No	Monitoring 🗸
Manual Geofence Settings	Zone2 Set Temperature	None	Low	High	Panic	0 🗘	0 🌩	Yes	No	Monitoring 🗸
Manual Geofence Zones	Ambient Air Temperature	None	Low	High	Panic	0 🗘	0 🗘	Yes	No	Monitoring ~
Trip \ Odometer	Compressor Coolant Temperature	None	Low	High	Panic	0 🗘	0 🍨	Yes	No	Monitoring ~
Bluetooth	Compressor RPM	None	Low	High	Panic	0 0	0 🇢	Yes	No	Monitoring V
iButton List	Compressor Config			High		0 0	0 🗘	Yes	No	Monitoring V
I/O		None	Low		Panic	+				
LVCAN	Battery Voltage (V * 10)	None	Low	High	Panic	0 0	0 🗘	Yes	No	Monitoring ~
FMS IO	Compressor Motor Work Minutes (HM)	None	Low	High	Panic	0 🗘	0 🗢	Yes	No	Monitoring ~
Manual CAN IO	Work Minutes (HMT)	None	Low	High	Panic	0 🗘	0 🗢	Yes	No	Monitoring 🗸
Tachograph Data	Electric Minutes (HME)	None	Low	High	Panic	0 🗘	0 🗢	Yes	No	Monitoring 🗸
RS232 \ RS485	Door State	None	Low	High	Panic	0 \$	0 🌩	Yes	No	Monitoring ~
CAN \ Tachograph	Installation Serial	None	Low	High	Panic	0 \$	0 🌩	Yes	No	Monitoring ~
ContiPressureCheck	Trailer Registration Number	None	Low	High	Panic	0 0	0 🇢	Yes	No	Monitoring ~
Custom scenarios						0 0				
Mobileye	Error Count	None	Low	High	Panic		0 🗘	Yes	No	
Reefer IO	Alarm 1	None	Low	High	Panic	0 \$	0 🗘	Yes	No	Monitoring ~
	Alarm 2	None	Low	High	Panic	0 🗘	0 🌻	Yes	No	Monitoring ~
	Alarm 3	None	Low	High	Panic	0 🗘	0 🗘	Yes	No	Monitoring 🗸

Figure 12 The configurator's Reefer I/O settings section



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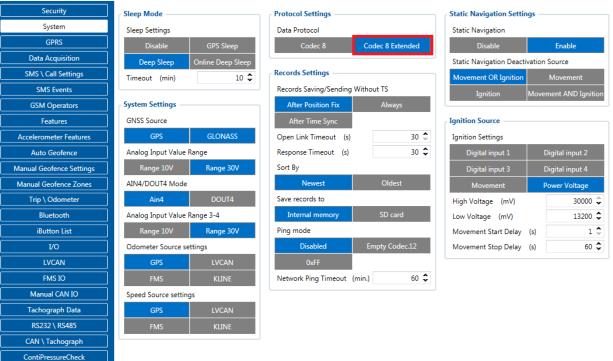


Figure 13 The configurator's System settings section



Document change log description:

Nr.	Date	Version number	Comments	
1	2019.09.25	1.0	Document created	
2	2019.09.26	1.1	"Carrier Special Cable" description added	
3	2019.09.30	1.2	Minor text and figure changes	
4	2019.10.04	1.3	Minor changes	
5	2020.01.23	1.4	,,Reefer I/O" parameter section updated	
6	2020.04.09	1.5	Updated link to official description of Carrier reefer cable (p.7)	