

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:

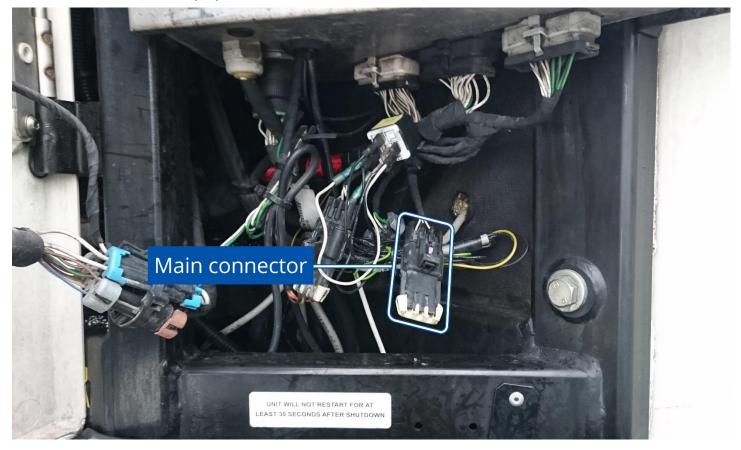


Figure 5 The main connector location close view



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

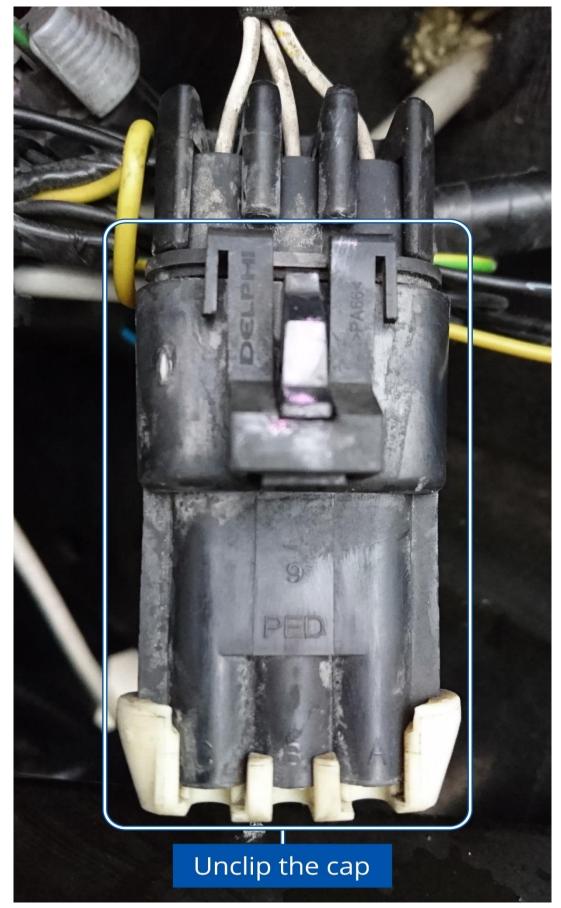


Figure 6 The main connector cap



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

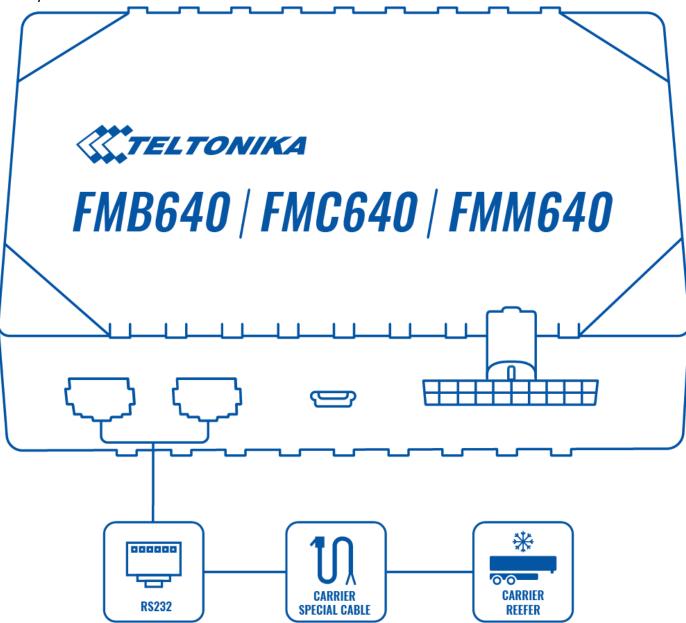


Figure 7 The principle connection scheme

\*- to get more information on "Reefer Special Cable", please contact your local sales manager. All of the "Teltonika" accessories can be found in our official website <u>here</u>.



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

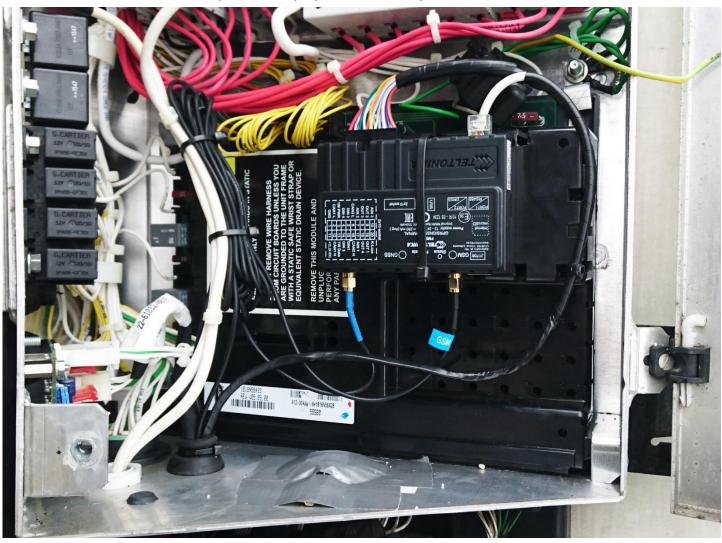


Figure 8 An example of tracking device installed in the panel



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

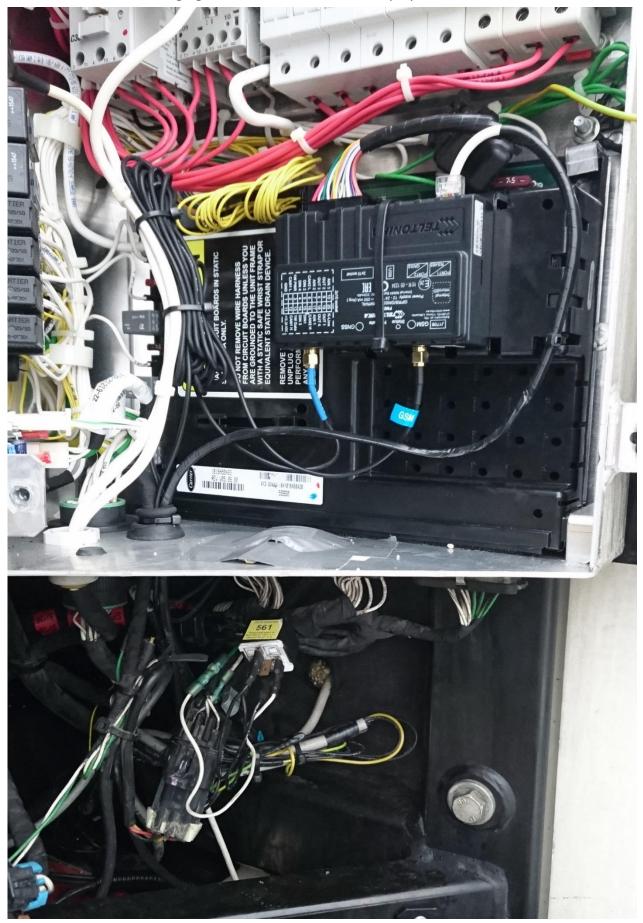


Figure 9 An example of tracking device installed in the panel full view



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)).

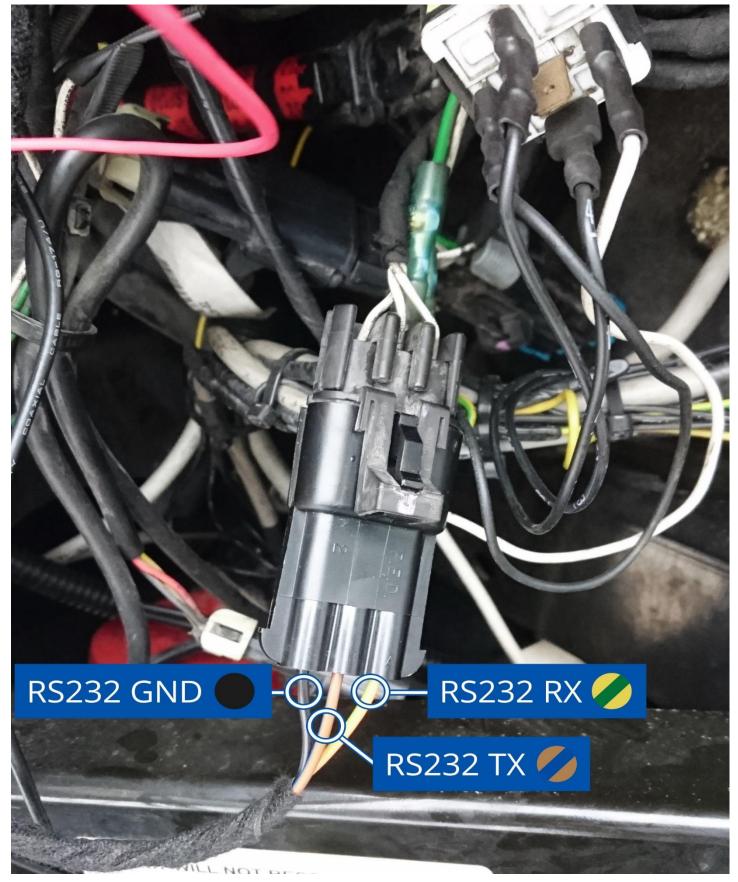


Figure 10 The connection of the tracking device's wires to the main connector



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**)

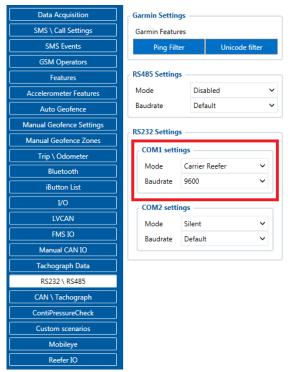


Figure 11 The configurator's RS232 \ RS485 settings section

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

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

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



TELTONIKA

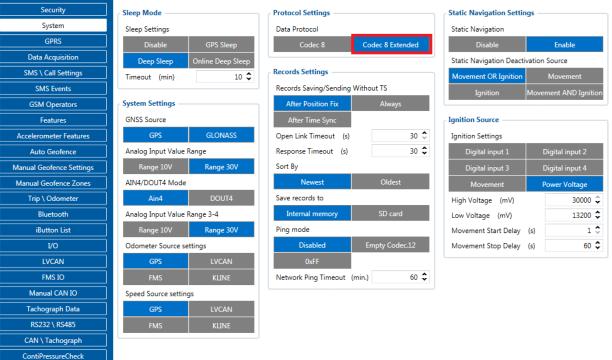


Figure 13 The configurator's System settings section



## 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