

FMM640 Carrier

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Introduction

Usually cargo is equally as important as the vehicle itself, with temperature data you can be assured that goods which you are delivering will maintain high quality, thus Teltonika is offering ability to monitor real-time information from Carrier Freezers. The Carrier Control box/ecu is connected via RS232 port of the professional FMM6 trackers. The solution is easy to install and to configure. This allows to monitor the main information of the freezer trailer such as Temperature, Fridge door status, Alarms etc. and generate events according to your needs. For more information please refer to the installation manual below.

Supported Carrier Refrigerators

SUPPORTED CARRIER REFRIGERATORS:

VECTOR 1800 | VECTOR 1850 | VECTOR 1850 MT | VECTOR 1550

Installation guide

Installation manual for Carrier Vector 1550 can be downloaded here: 

Installation requires "[Carrier reefer cable](#)"

Configuration

Make sure FMM6 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)



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

- Security
- System
- GPRS
- Data Acquisition
- SMS \ Call Settings
- SMS Events
- GSM Operators
- Features
- Accelerometer Features
- Auto Geofence
- Manual Geofence Settings
- Manual Geofence Zones
- Trip \ Odometer
- Bluetooth
- iButton List
- I/O
- LVCAN
- FMS IO
- Manual CAN IO
- Tachograph Data
- RS232 \ RS485
- CAN \ Tachograph
- ContiPressureCheck
- Custom scenarios
- Mobileye
- Reefer IO

reefer

| Input Name | Priority | Low Level | High Level | Event Only | Operand |
|------------------------------------|---------------------|-----------|------------|------------|------------|
| Zone1 Return Air Temperature 1 | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Zone1 Return air temperature 2 | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Zone1 Supply Air Temperature 1 | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Zone1 Supply air temperature 2 | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Zone1 Set Temperature | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Zone2 Supply air temperature 1 | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Zone2 Return air temperature 1 | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Zone2 Set Temperature | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Ambient Air Temperature | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Compressor Coolant Temperature | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Compressor RPM | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Compressor Config | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Battery Voltage (V * 10) | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Compressor Motor Work Minutes (HM) | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Work Minutes (HMT) | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Electric Minutes (HME) | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Door State | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Installation Serial | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Trailer Registration Number | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| Error Count | None Low High Panic | 0 | 0 | Yes No | Monitoring |
| 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 |

Codec 8 Extended should be selected as the main data protocol in the “Protocol Settings” tab, which is located in “System” section.

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Sleep Mode

Sleep Settings

Disable | GPS Sleep

Deep Sleep | Online Deep Sleep

Timeout (min) 10

System Settings

GNSS Source

GPS | GLONASS

Analog Input Value Range

Range 10V | Range 30V

AIN4/DOUT4 Mode

Ain4 | DOUT4

Analog Input Value Range 3-4

Range 10V | Range 30V

Odometer Source settings

GPS | LVCAN

FMS | KLINE

Speed Source settings

GPS | LVCAN

FMS | KLINE

Protocol Settings

Data Protocol

Codec 8 | **Codec 8 Extended**

Records Settings

Records Saving/Sending Without TS

After Position Fix | Always

After Time Sync

Open Link Timeout (s) 30

Response Timeout (s) 30

Sort By

Newest | Oldest

Save records to

Internal memory | SD card

Ping mode

Disabled | Empty Codec.12

0xFF

Network Ping Timeout (min.) 60

Static Navigation Settings

Static Navigation

Disable | Enable

Static Navigation Deactivation Source

Movement OR Ignition | Movement

Ignition | Movement AND Ignition

Ignition Source

Ignition Settings

Digital input 1 | Digital input 2

Digital input 3 | Digital input 4

Movement | Power Voltage

High Voltage (mV) 30000

Low Voltage (mV) 13200

Movement Start Delay (s) 1

Movement Stop Delay (s) 60