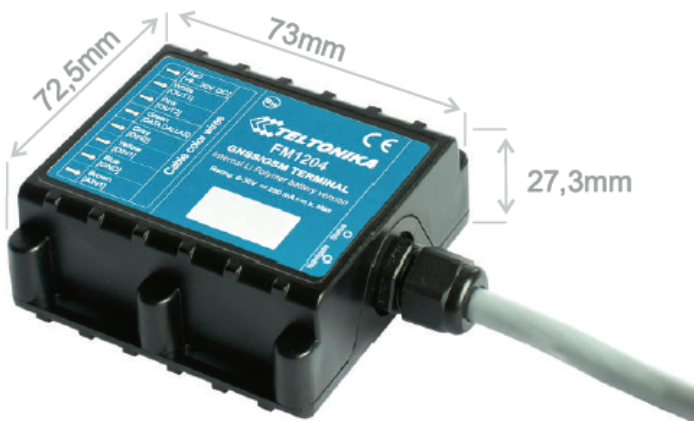


Installation Manual Heavy-10 (Teltonika FM1204)

- Technical Data for Teltonika FM1204
- Battery
- Stromverbrauch / Spannung
- Navigate LED operation (GPS Signal)
- Status LED operation (GSM)
- Positioning of the device with GPS antenna inside the device
- Positioning of the device (optional)
- Standard installation with main power, ignition and ground

- Installation Tests:
- Connection with additional input (private switch)
- Anschluss mit Fahrererkennung (iButton)
- Installation Tests:



Technical Data for Teltonika FM1204



FM1204_v2-1.pdf

Battery

1800mAh LiPo acco: the internal accu lasts for 10 to 12 hours with standard operation or 2-3 days in sleep mode or up to 30 days in deep sleep mode without any movement (theoretically)

Stromverbrauch / Spannung

Full operation	Sleem mode (after approx. 5-10 minutes without movement)	Deep sleep (optional)	Operating voltage
approx. 110 mA @12 VDC	approx 20 mA	under 2 mA	10V -30V
		Device cannot be reached	

Navigate LED operation (GPS Signal)

If ignition is ON and connected, the Navigate LED must blink every second.

Behavior	Meaning
Permanently switched on	GPS signal is not received
Blinking every second	Normal mode, GPS is working
Off	GPS is turned off because of deep sleep mode Or GPS antenna short circuited

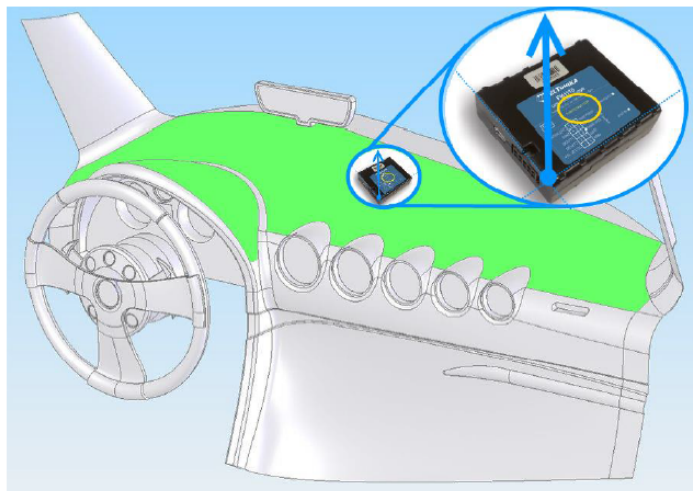
Status LED operation (GSM)

If ignition is ON and connected, the LED must blink every second and faster if data is transferred.

Behavior	Meaning
Blinking every second	Normal mode
Blinking every 2 seconds	Deep sleep mode
Blinking fast for a short time	Modem activity
Blinking fast constantly	Boot mode
Off	Device is not working or device firmware being flashed

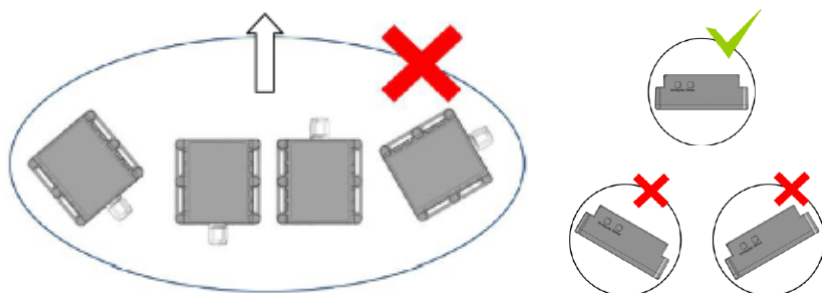
Positioning of the device with GPS antenna inside the device

The device shall be placed UNDER the plastic dashbord with the sticker showing to the sky.

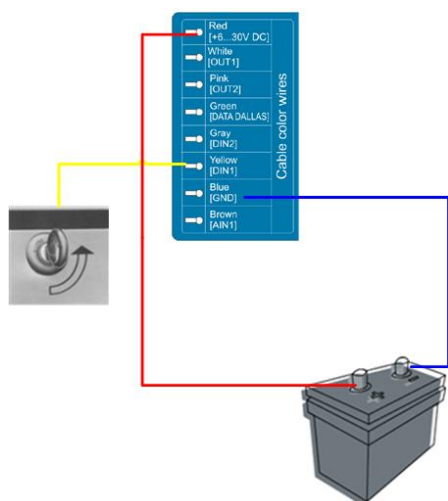


Positioning of the device (optional)

If acceleration plays a role, the device should be positioned horizontally and the main wire should show to the back or in driving direction



Standard installation with main power, ignition and ground



PIN	Meaning	Colour	Necessary	Description
	VCC (10-30) V DC	red	yes	Main Power +6 V - 30 V Direct Current

	GND (12-30) V DC	blue	yes	Ground
	DIN 1 / IGN	yello	yes	ignition power

Note that

- The main power must remain stable even if the vehicle is turned off (and goes into sleep mode)
- The real ignition must go to 0 if the vehicle is switched off

Installation Tests:

Data with ignition ON and OFF and the gps position must be shown in the test tool.

see [Installation Tests and Reporting](#)

Connection with additional input (private switch)

PIN	Meaning	Colour	Necessary	Description
	VCC V DC	red	yes	Main Power +6 V - 30 V Direct Current
	GND V DC	blue	yes	Ground
	DIN 1 / IGN	yello	yes	ignition power
	DIN 2	grey	optional	private switch

Anschluss mit Fahrererkennung (iButton)

Meaning	Colour	Necessary	Description
VCC (10-30) V DC	red	yes	Main Power +11,8 V - 30 V Direct Current
GND (12-30) V DC	blue	yes	Ground
DIN 1 / IGN	yellow	yes	ignition power
1W.data	green	unbedingt	iButton reader white wire
GND (12-30) V DC	blue	unbedingt	iButton reader grey wire connect to ground
OUT1	white	unbedingt	black wire of alert buzzer (negative output)
VCC (10-30) V DC	red	unbedingt	red wire of alert buzzer (main power)
DIN 2	grey	optional	Privat switch (to main power)

Installation Tests:

The driver identification is managed by the software. The test will only work if the standard mode "logoutmode=2" is used.

If ignition is ON, the buzzer must start to beep. If you place the ibutton chip on the reader, the buzzer must stop

see [Installation Tests and Reporting](#)

