T-MARK T1-1 GNSS Tracker User Manual

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T-MARK T1-1 GNSS Tracker

Product Information

T1-1 GNSS Tracker

The T1-1 GNSS Tracker is a device designed to track and monitor the location of vehicles or other mobile assets. It has a range of features that allow for fuel supply control, driving behavior analysis, multi-GNSS tracking, ACC detection, location data re-upload, smart power saving, and anomaly alerts for vibrations, over-speeding, and power-off events.

Product Features

- Fuel supply control
- Driving behavior analysis
- Multi-GNSS tracking
- ACC detection
- Location data re-upload
- Smart power saving
- Anomaly alert (vibration, over-speed, power-off, etc.)

Product Operating Environment

- **Operating voltage:** 12-90VDC
- **Internal backup battery:** 3.7V/150mAH battery
- **Operating current:** 22mA @12V
- **Standby current:** 3mA @12V
- **Operating temperature:** -20 to 70
- **Storage temperature:** -40 to +85
- **Positioning accuracy:** (not specified)

Product Usage Instructions

Before using the T1-1 GNSS Tracker, please read the manuals carefully to ensure correct installation and

activation. The appearance and color of the product may vary slightly from the manual.

To use the GNSS Tracker:

1. Install the T1-1 GNSS Tracker in the vehicle or mobile asset according to the manual.
2. Activate the device online according to the manual.
3. The device will start tracking and monitoring the location and other data of the vehicle or asset.
4. You can view and analyze the tracking data using the manufacturer's software or app.

For specific instructions on using the fuel supply control, driving behavior analysis, multi-GNSS tracking, ACC detection, location data re-upload, smart power saving, and anomaly alerts features, please refer to the manual or contact the manufacturer for support.

Please read the manuals carefully before you use it, so as to get the correct installation and quick online activation. If the appearance and color of the product are changed, the object will prevail.

Introduction

Features

1. Fuel supply control
2. Driving behavior analysis
3. Multi-GNSS
4. ACC detection
5. Location data re-upload
6. Smart power saving
7. Anomaly alert (vibration, over-speed, power-off, etc.)

Operating Environment

- **Operating voltage:** 12-90VDC
- **Internal backup battery:** 3.7V/150mAH battery
- **Operating current:** 22mA @12V
- **Standby current:** 3mA @12V
- **Operating temperature:** -20℃ to 70℃
- **Storage temperature:** -40℃ to +85℃
- **Positioning accuracy:** <10m
- **Location modes:** GPS, BDS, AGPS, and LBS

Frequency Bands

- **GSM:** B2/B3/B5/B8

Overview

Appearance

- **Connotations of Indicators**

Power Indicator (Red)

- **Keep on** Connected to external power
- **Off** Not connected to external power

GNSS indicator (Blue)

- **Slow flashing** The device is searching for satellite signals.
- **Keep on** The GNSS module is already fixed a position.
- **Off** Device is in sleep mode or not operating

Network indicator (Green)

- **Slow flashing** The network in searching
- **Keep on** The device online
- **Off** Device is in sleep mode or not operating

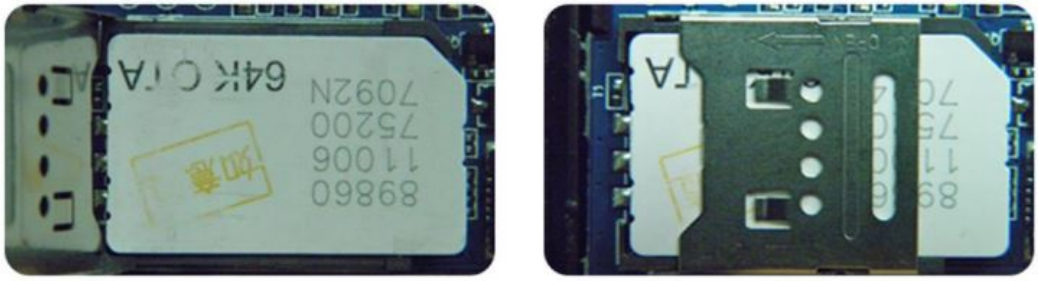
Note: By default, when the device is stationary for 3 minutes, the LED will automatically turn off and wake up after a vibration.

Installation

Inserting the SIM Card

- **Step 1 Prepare a proper SIM card;**

- **Step 2 Insert the SIM.**



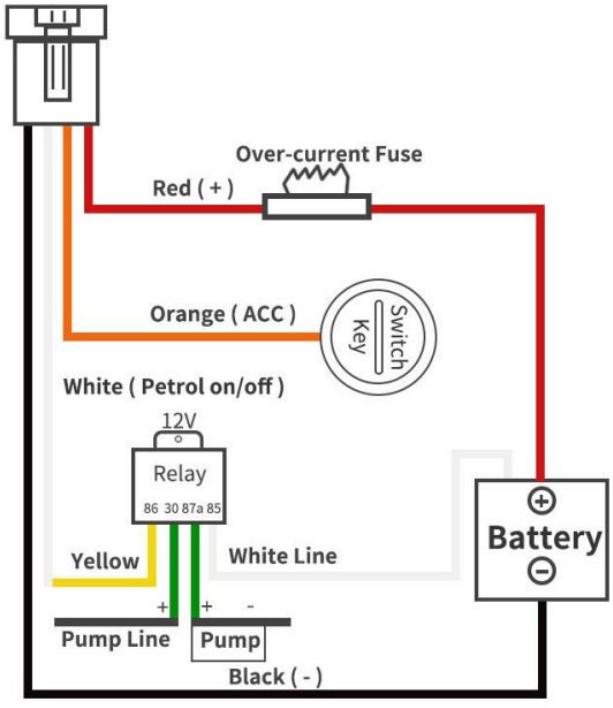
After the SIM card is inserted, the device powers on using the backup battery. If the device fails to power on due to low battery, you can connect the device to the external power.
Note: The SIM card must be inserted correctly, has GPRS services activated, and is not in arrears. If the SIM is identified and requires a PIN, please disable the PIN request.

Installing the Device

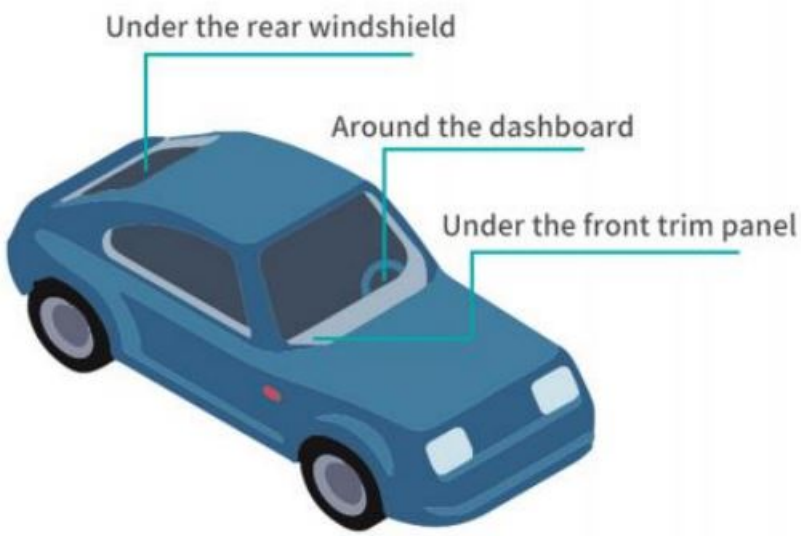
Product wiring diagram

1. Use a multimeter to find out the positive and negative terminals of the vehicle battery and the ACC line.
2. Connect the red wire (positive)of the device configuration power cable to the positive terminal of the vehicle battery.
3. Plug in the connector as shown in the figure below

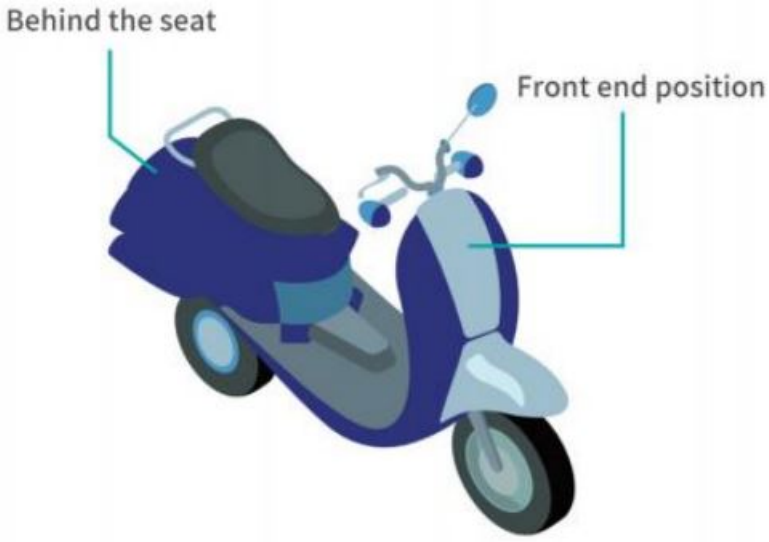
Device wiring



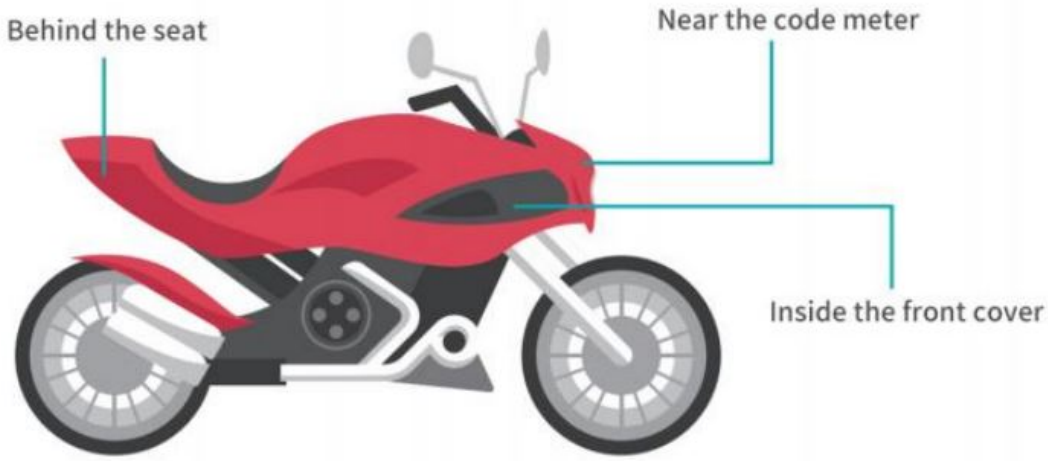
Car mounting position



Electric car installation location



Motorcycle installation position



Product Features

Content	Function	Description
Positioning function	Timed tracking	Transmit back the positioning information such as latitude and longitude according to the set interval time.
	Street map	360 degree high-definition map
	Speeding alarm	When driving over speed, the locator will send alarm to your cell phone
	Vibration alarm	Built-in vibration sensor, continuous vibration of the vehicle, the device will immediately send alarm alerts
	Electronic fence	When the car driving range exceeds the specified area, the platform will send alarm information
	History track	Can play back 90 days of the track, playback the speed, directio n, stay time and other content
	Displacement alarm	When the vehicle encounters illegal operation or theft, the fuel and electricity can be cut off remotely by computer or cell phone APP
	Fleet management	1 cell phone can manage multiple devices, or 1 device multiple cell phone management

Analysis of common problems

Failure phenomenon	Failure analysis	Treatment method
	Determine whether to use the termin al in areas with poor GPS signals, s uch as near tall buildings or underground parking lots	Move the vehicle to a location with a good signal Use the terminal

Blue light flashes slowly	Determine whether the front windshield of the vehicle has metal heat insulation film affecting the signal reception	If there is a film, the equipment will be changed to other vehicles to test whether the blue light is always on, such as in other vehicles without film to test no problem, then the vehicle is caused by the film
	Determine whether there is a shield or signal jammer on or around the car	If there is a shield or source of interference, remove the shield or source of interference and try to reinstall
Green light flashes slowly.	Determine whether the SIM card is installed properly	Check whether the SIM card is installed in place
	Determine if there is dirt or poor contact on the metal surface of the SIM card	Wipe the metal chip surface with a clean cloth or repeatedly insert and remove the card several times
	Determine if the vehicle is in a place with no mobile network, such as an underground parking lot.	Please drive the vehicle to a place with good network signal and try to reinstall it.
	Determine whether the server background is normal	Ask if the server of the background management platform is normal
	Determine whether the SIM card status is normal or not	Check whether the status of the SIM card is normal through the SIM card inquiry platform
	Determine whether there is a shield or signal interferer on the car or around	If there is a shield or source of interference, remove the shield or source of interference and try to reinstall

Documents / Resources

	T-MARK T1-1 GNSS Tracker [pdf] User Manual T1-1 GNSS Tracker, T1-1, GNSS Tracker, Tracker