




T-mark T4-1 GNSS Tracker User Manual

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T-mark T4-1 GNSS Tracker



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.

Product Information

The T4-1 GNSS Tracker is a device used to track and analyze driving behavior. It offers fuel supply control, multi-GNSS, ACC detection, location data re-upload, smart power saving, and anomaly alert features. With these features, the T4-1 GNSS Tracker provides accurate and reliable data for fleet management, vehicle security, and other related applications.

- **Fuel Supply Control:** The T4-1 GNSS Tracker allows for remote fuel supply control to prevent fuel theft and reduce fuel costs.
- **Driving Behavior Analysis:** The device can analyze driving behavior such as harsh braking, acceleration, and cornering to improve driver safety and reduce maintenance costs.
- **Multi-GNSS:** The T4-1 GNSS Tracker is equipped with multiple GNSS systems such as GPS, GLONASS, and Beidou to provide reliable and accurate positioning data.
- **ACC Detection:** The device can detect whether the vehicle is turned on or off and provide accurate ignition status data.
- **Location Data Re-upload:** In case of network interruption, the T4-1 GNSS Tracker can store location data and upload it later when the network becomes available.
- **Smart Power Saving:** The device is designed to consume minimal power while providing accurate and reliable data.
- **Anomaly Alert:** The T4-1 GNSS Tracker can detect anomalies such as vibration, over-speed, power-off, etc. and send alerts to the user.

Product Usage Instructions

Before using the T4-1 GNSS Tracker, please read the user manual carefully to ensure correct installation and quick online activation. If the appearance and color of the product are changed, the object will prevail. The T4-1 GNSS Tracker operates in a voltage range of 12-90VDC and has an internal backup battery of 3.7V/120mAH. The operating current is 50mA @12V and standby current is 5mA @12V. The device can operate in temperatures ranging from -20 to 70 degrees Celsius and can be stored in temperatures ranging from -40 to +85 degrees Celsius.

To use the T4-1 GNSS Tracker, follow these steps:

1. Install the device in a suitable location in the vehicle.
2. Connect the device to the vehicle's power supply.
3. Activate the device by following the instructions provided in the user manual.
4. Access the data collected by the device through a web-based platform or mobile application.

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/120mAH battery
- **Operating current:** 50mA @12V
- **Standby current:** 5mA @12V
- **Operating temperature:** -20°C to 70°C
- **Storage temperature:** -40°C to +85°C
- **Positioning accuracy:** <10m
- **Location modes:** GPS, BDS, AGPS, and LBS

Frequency Bands

- **GSM:** B2/B3/B5/B8
- **LTE-FDD:** B1/B2/B3/B4/B5/B7/B8/B28/B66

Overview

Appearance



Connotations of Indicators

Power Indicator (Red)

Solid on	Connected to external power
Off	Not connected to external power

Network indicator (Green)

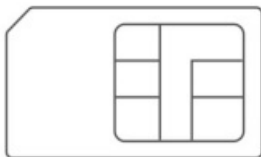
Slow blink	The network in searching
Solid on	The device online
Off	Device is in sleep mode or not operating

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

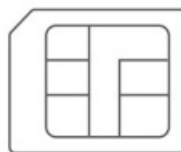
Installation

Inserting the SIM Card

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



Standard ✕

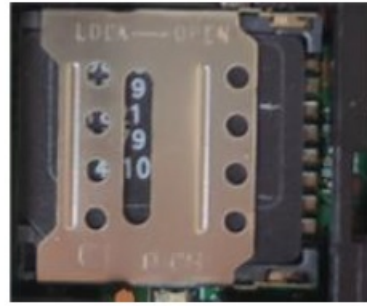


Micro ✓



Nano ✕

- **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.

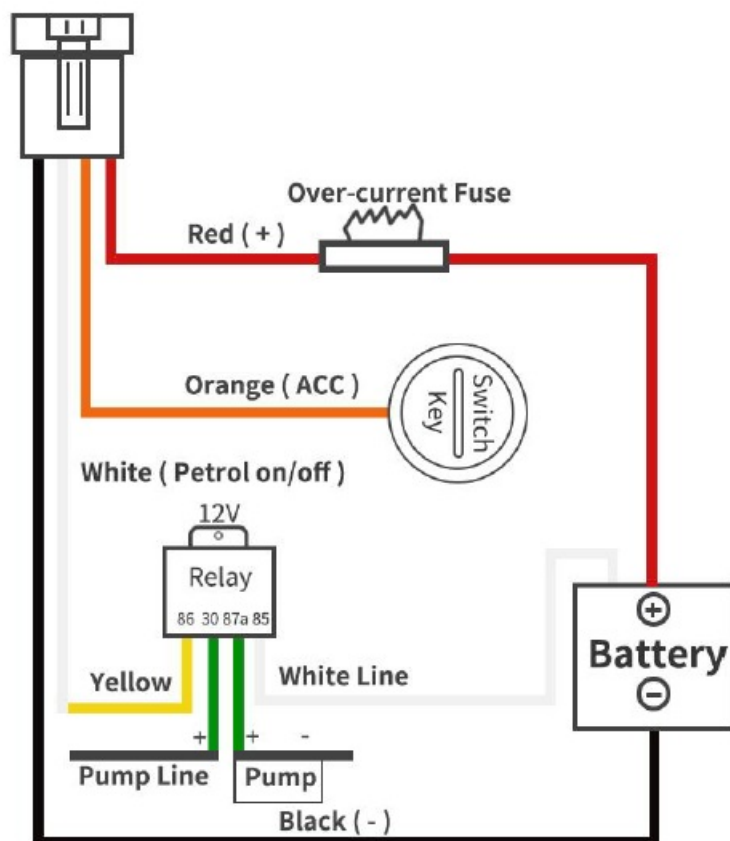
Note: The SIM card must be inserted correctly, has GPRS services activated, and is not in arrears. If the SIM is identified and requires a PIN, please disable the PIN request.

Installing the Device

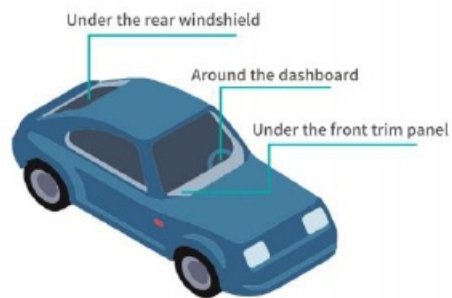
• Product wiring diagram

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:

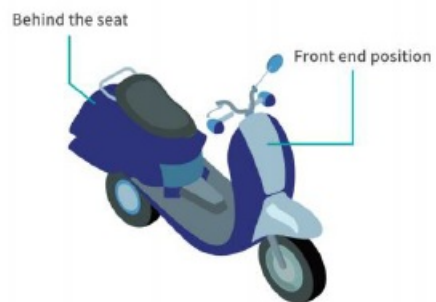
Device wiring



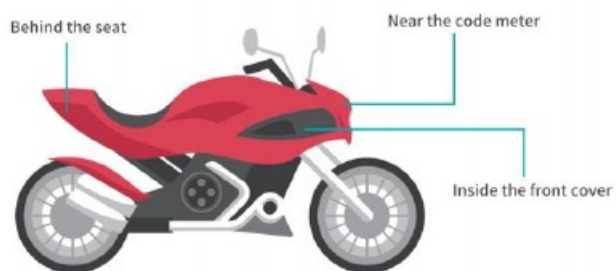
| Car mounting position



| 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, direction, 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
GPS is not positioned	Determine whether to use the terminal in areas with poor GPS signals, such as near tall buildings or underground parking lots	Move the vehicle to a location with a good signal Use the terminal
	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
GSM is not working	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

 <p>T4-1 GNSS TRACKER</p> <p>Revised for product safety information, please refer to the latest version and make sure to use the latest version.</p>	<p>T-mark T4-1 GNSS Tracker [pdf] User Manual</p> <p>T4-1, T4-1 GNSS Tracker, GNSS Tracker, T4-1 Tracker, Tracker</p>
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