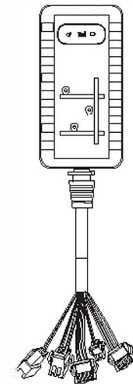


User Manual



TE-103F/UG35

GPS Tracker

1. Product features

- Time interval report.
- Real-time clock with GPS calibrates automatically.
- Built-in 4MB memory for storing GPS datas.
- Geo-fence.
- Remote monitoring .
- Remote cutoff and recover fuel/power
- Remote configure through SMS or platform server
- 1 positive trigger, 1 negative trigger
- 1 ACC input trigger
- 1 output
- 1 relay control
- 1 Rs232 1 sos button
- Firmware updating over the air (ftp)

2. Functions

2.1 Multiple alarms:

- Motion detection alarm
- Over speed alarm
- Low voltage alarm

01

• SOS emergency alarm

2.2

- Mileage report
- Engine hour report
- Battery level report

3. Specifications:

3.1 GPS Tracker Parameters

3.1.1 Tracker device

- Size: 100x48x20 mm
- rated working voltage : DC 9V — 90V
- Standby current: ≤3mA
- Working Temp: -20℃ — +70℃
- Storage Temp : -40℃ — +85℃
- Working time of backup battery: power save mode (default) ≥2 hours

3.1.2 GNSS Parameters

- SPUUORT GPS /GLONASS system

02

- GPS receiver : 12channel
- Receiver: L1 band(1575.42MHz)-C/A code(1.023MHzchip rate)
- Tracking sensitivity : <-159 dBm (GPS) <-158 dBm (GLONASS)
- Cold start sensitivity: <-148dBm
- Positioning accuracy: 2.5m (open field)
- Speed accuracy: 0.1m/s
- Cold start: 35s, hot start: <1s

3.1.3 GSM Parameters

- Working frequency band : 800/850/900/1900/2100MHz@UMTS 850/900/1800/1900MHz@GSM 900/2100MHz dual frequency
- Transmit power:
- GSM850/EGSM900: 2W
- DCS1800/PCS1900MHZ: 1W

03

Or Class 3 (24dBm+1.7/-3.7dB)

for UMTS900/2100

Receive Sensitivity:

GSM≤-106 dBm

- GSM positioning accuracy: 50m

4. Applications

- Vehicle Real-time Tracking
- Car Security
- Fleet Management(Logistics, Bus, Taxi)

5. TE103F and Accessories

5.1 Standard Accessories



4pin power extend cable



MIC cable



sos button



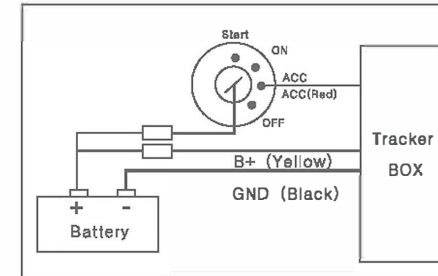
Relay(Option)

04

6. Installation

6.1 Installation of GPS Tracker

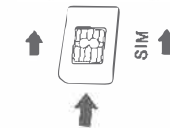
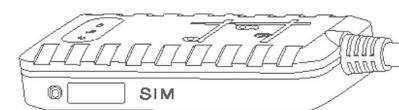
- 6.1.1 Tracker Box connects to car battery. Do not jump over the fuse to connect to car battery directly (see figure)



05

7.2.1 To ensure that the SIM card is available (Pls test the calling and texting function with your mobile phone):

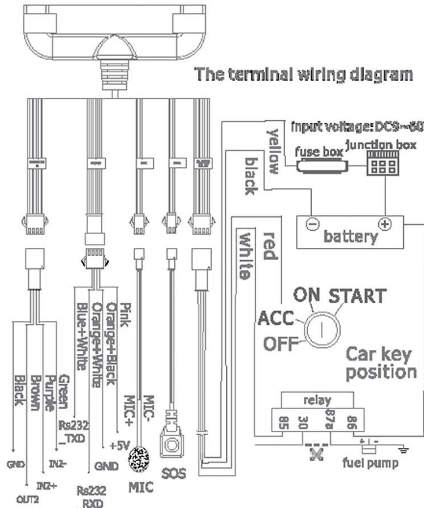
To ensure the password access function of SIM card has been closed When you use authorization phone number to call the GPS tracker, and you want it to send you positioning message, Please ensure the SIM card in the Tracker support caller ID display function. Before inserting the SIM card, please shut off the GPS tracker to make it power off.



06

POWER LINE CONNECTOR

16 Pin Power Line



16PIN POWER LINE DEFINITION					
MIC			SOS		
PIN	COLOUR	FUNCTION	PIN	COLOUR	FUNCTION
1	(BLUE)	MIC_P	1	(ORANGE)	SOS
2	(WHITE)	MIC_N	2	(BROWN+BLACK)	GND
B+/ACC/RELAY			RS232		
PIN	COLOUR	FUNCTION	PIN	COLOUR	FUNCTION
1	(BLACK)	GND	1	(BLUE+WHITE)	RS232-TXD
2	(YELLOW)	B+	2	(ORANGE+WHITE)	RS232-RXD
3	(GRAY)	RELAYS	3	(ORANGE+BLACK)	GND
3	(RED)	ACC	4	(PINK)	+5VOUT
SENSOR B					
PIN	COLOUR	FUNCTION	PIN	COLOUR	FUNCTION
1	(GREEN)	In2-	3	(BROWN)	OUT2
2	(PURPLE)	In2+	4	(BLACK)	GND

7.3 LED Indicator

When you connect to power cable (DC 10.8V~32V), the TE-103 system will boot up and work

7.3.1 GSM Indicator(green):

- Light on: GPRS Network Registration Pending
- Slow Flashing (interval of 2 second) : GPRS Network Registration Succeed

7.3.2 GPS Indicator(Blue)

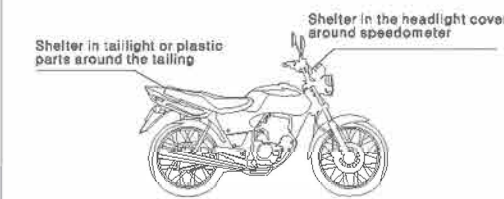
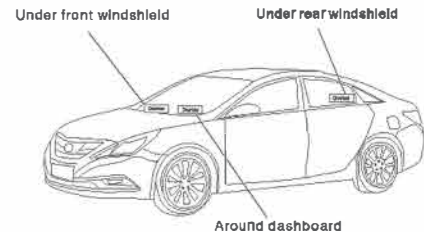
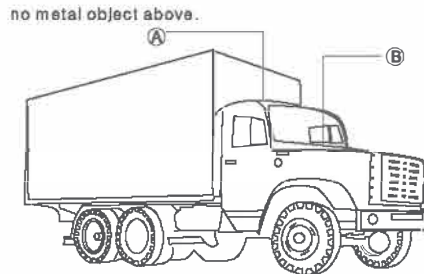
- Light on: GPS Positioning
- Slow Flashing (interval of 2 second) : GPS Positioning Succeed, available to obtain the correct data

7.4 Terminal Parameters Setting

Please set right parameters at PC terminal or through SMS before using the device to ensure its normal use.

7.5 Install the device

- Best place to install:A
Shelter in the plastic roof make sure the receiving side is face up, with no metal object above.
- Best place to install:B
Shelter in the center console below the front wind shield Make sure the receiving side is face up, with



8 TE-103F SMS Command

8.1 Set primary SOS number

- Format **sos:xxx**
//xxx is the telephone number

8.2 Set SOS number

- format **sos:xxx,sos1:xxx,sos2:xxx,sos3:xxx**
//xxx indicate telephone number, if no or cleared, using "null" string instead.

8.3 Set apn

- format: **apn,name,user,pass**

//if only need the apn name, using "apn, name", you should ensure the primary sos being succeed setted.

8.4 Set server

- format: **ip,58.96.182.170,1883**

8.5 New position

- format: **c**

8.6 Set ACC status remind

- format: **urgent,x**
X equal off indicate close, on indicate open
Default open

8.6.1. Set acc on report interval

- Format: **onreplinterval,xxx**
Xxx indicate the seconds of interval
Default 30 seconds

8.6.2. Set acc off report Interval

- Format: **offrepinterval,xxx**
Xxx indicate the seconds of interval
Default 900 seconds

8.7 Set overspeed remind

- Format: **overspeed,x,y**
//X equal 0 indicate close, 1 indicate open
//Y is the speed value.
• Default open

8.8 Reboot tracker

- format: **reset**

8.9 Restore factory set

- format: **factory**

8.10 Set initial value of the engine hours

- Format: **enginehours,xxx**
//xxx Indicate the value of the engine hours

8.11 Set initial value of the mileage

- Format: **mileage,xxx**
//xxx indicate the value of the mileage

9.Attention

- Away from water
- Working temperature is -20℃~+75℃

- Please cut off power if the temperature is over this range.
- When vehicle is in underground parks,tunnels or garage, maybe GPS signal will not very good. Communication network blind area will be caused and cannot monitor vehicle. When the car is out of that area, it will working good automatically.

10.Warranty and service

- One-year warranty. During this period, please feel free to connect us if there is any problem or damage not caused by human factors. Not maintenance:
- client dismantled privately
- force majeure (floods, accidents,etc.)
- More than one year damage or faulty maintenance will need to pay for raw material
- Before-sale, after-sale service for free.

More attention, please visit: www.cnthinkpower.com

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.