



深圳市龙桥科技发展有限公司

SHENZHEN DRAGON BRIDGE TECHNOLOGY CO., LTD.

Application : Rental cars, insurance cars, trucks, buses

Wireless Fleet management Solution Innovator

GSM/GPRS/GPS Tracker

User Manual

LTS-60TH 4G



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1 Introduction

1.1 product description

The LTS-60TH is working based on existing GSM/GPRS network and GPS satellites, can locate and monitor any remote targets by SMS or internet. The most advanced technology of GPS and AGPS dual-positioning. built-in high capacity battery, long standby, easy installation + strong magnetic adsorption portable GPS locator, deep dormancy prevents detection radar scan.

2 Product Overview

2.1 Product accessories

Items	description
Main device	

2.2 SIM card installation

1. Make sure that SIM card is not switched on and PIN code is closed. Mobile SMS must be in plain text format, and cannot recognize PDU format.
2. Open the soft plug, the card chip is up, the gap is inward.
3. Insert the GSM SIM card, and then close the rubber plug.

2.3 Device LED light status

- Put in SIM card correctly until the indicator lights up, then you can set SMS messages instructions.

2.3.1 Green LED for GPRS working status

Status of indicator	Meaning
Slow flash (flash 1s after every 2s)	GSM / GPRS conversation start
Continuously in bright status	No GPRS signal
Green Led off	Device fault or dormant

2.3.2 Blue LED for GPS working status

Status of indicator	Meaning
Slow flash (flash 1s after every 2s)	GPS location successful
Continuously in bright status	Searching GPS signal
Blue led off	Device fault or dormant

2.3.3 Red LED for power charging status

Status of indicator	Meaning
Red led on all the time	Charging

Red led off	Full battery or charged full
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In 10 or 40 seconds, the unit will begin to work and acquire the GSM signals as well as the GPS signals. The indicator will keep flashing every 3 seconds when the unit has received the signals. In normal condition, the indicator lights will be off in 4 minutes.

2.4 Parameters

Items	description
Size of the whole machine size	105mm × 64mm × 46mm
Weight	410g
Built-in battery capacity	Rechargeable 3.7V 12000mAh / 24000mAh
Working temperature	-20°C to +55°C
Storage temperature	-40°C to +85°C
Working humidity	5%--95% non-condensing
Bands	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B3/B5/B8 850/800/900/1900/2100 MHz GSM: 850/900/1800/1900Mhz
GPS Chips:	MT2503D
GSM/GPRS Module	EC25
GPS sensitivity	-161 dBm
GPS Accuracy	5m(3D positioning mode)
Time To First Fix	Cold status 45-120s Warm status 35s Hot status 1s
Standby	60-100 Days

Sensor performance

Relative humidity

parameter		min	type		
Resolution			0.1		%RH
Measuring range	extended	0		99.9	%RH
Accuracy"			±3	see delow	%RH
Repeatability			±1		%RH
Interchangeability		Fully interchangeable			
Response time	1/e(63%)		<6		S
Hysteresis			±3		%RH
drift"	Classic		<0.5		%RH/yr

Table 1 Humidity characteristics table

Temperature

parameter		min	type	max	
Resolution			0.1		°C
Precision			±0.5	see below	°C
Measuring range		-40		80	°C
Repeatability			±0.2		°C
Interchangeability		Fully interchangeable			
Response time	1/e(63%)		<10		S
drift"			±0.3		°C/Cyr

Table 2 Temperature characteristics table

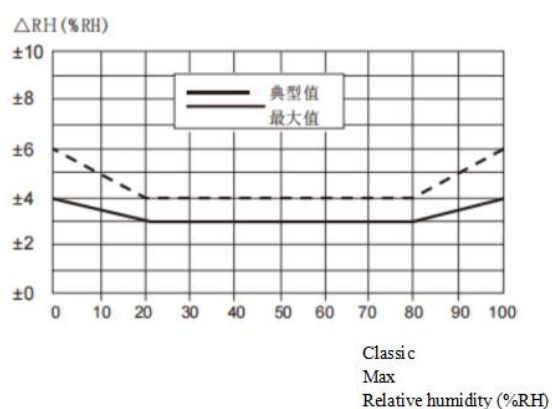


Figure 1 The maximum error of relative humidity at 25°C.

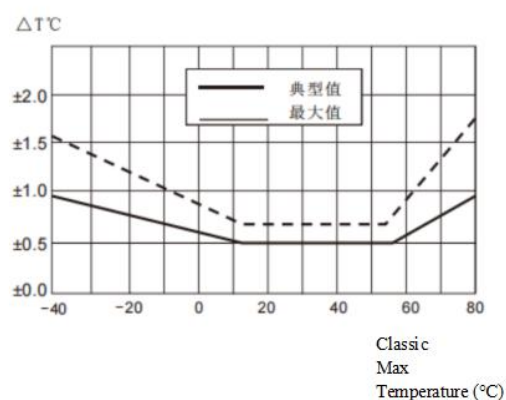


Figure 2 Typical temperature error and maximum error.

2.5 Applications

Vehicle rental / Fleet management etc
 Loan secured vehicle
 Valuable logistics and transportation
 container/assets
 Specific items and vehicle monitoring, etc

2.6 Function

Real-time Tracking
 Temperature and Humidity Uploading
 Historical route
 Free Installation
 AGPS

3 SMS command setting

(Note: The "+" number in all instructions does not need to be entered when writing a short message. The "Space" means the space symbol on the mobile phone.)

3.1 Initialization settings

Example: Send a SMS message instruction "begin + password" to the device, the device will respond to "begin ok" and return to the default factory settings. (The default password is 123456), Example: Send "begin 123456"

3.2 Authorization (center number)

Send SMS: "admin+password+space+cell phone number" to set up a authorized number. If the number is successfully authorized, the unit will reply "admin ok!" in SMS.

The other authorized numbers should be set by the first authorized number.

The center number can operate the message instructions or check the car on the internet on the terminal. .

(Note: A device can only authorize one central number. If you want to change the central number, you need to delete the original authorized number.) .

Delete Authorization : For example: Send SMS command "noadmin+password+space+ Authorized number", the device will reply "noadmin ok".

3.3 Changing Password Set Password

Send sms: "password+old password+space+new password" to the unit to change the password.

For example: Sending "password123456 888888" to device. (123456 is old password, 888888 is new password)

3.4 More Commands

Function	Command Format	Reply	Delete	For example
APN	apn+123456+space+content	apn ok		apn123456 cmnet
	Apn user+123456+space+content	Apn usern ok		
	apnpasswd+123456+space+content	apn passwd ok		
Admin number	admin123456+space+admin	admin ok	noadmin1	admin123456

	phone number		23456	186*****
Time zone	timezone+123456+space+GM T No.	timezone ok		timezone123456 +1
Time sleep	sleep123456 time	sleep time ok		
Shock sleep	sleep123456 shock	sleep shock ok		
No sleep	sleep123456 off	sleep off ok		
Voice monitor	Monitor123456	Monitor OK	Tracker12 3456	
Upload frequency	upload123456+space+time	upload ok		upload123456 10
Position	G123456# or where	google map		
Restart	rst	restart ok		
Back to factory	format	No reply		
Anti detection	sleep123456 detect		sleep1234 56 shock	

4 Tracking Platform

Users can log on to the Global Positioning Service Platform to view the location and status of the vehicle and operate accordingly. Please consult your distributor for the website of the service platform.

4.1 Web platform

<http://www.gpscj.com>

4.2 APP platform



4.2.1 Android APP

open the website: <http://www.gpscj.com>, Scan above “QR”code to download APP , Or use mobile browser to open the website and download it directly.

4.2.2 IOS APP

Search Apple Store for Yuntrack and download APP

5 Needing attention

Please follow the rule when using it:

1. Using the equipment in dry environment, humid environment is easy to damage the internal circuit.
2. Don't put it in too hot or cold place.
3. Do not shake the equipment violently in use.
4. If the dirt is dirty, please clean it with dry cloth. Do not use chemicals or detergents.
5. Please do not paint the equipment, which may lead to internal circuit failure.
6. Do not disassemble or assemble equipment.
7. Please use battery and charger equipped by manufacturer. If other batteries and chargers are used, some faults may occur.

6 Faults & The solutions

If the device can't be connected to the background server after first time installation, and the background server shows it is offline, please check the installation correct or not.

If you have any questions for the operation, please refer to the following questions and solutions; if you still can't solve the problem, please contact your dealer.

Faults	Solutions
Startup Fail	Check the battery and see if it is fully charged or correctly installed.
Hang up Fail	In existence of an authorized number, an unauthorized number dials up the unit. Please initialize the unit and re-set up the authorized numbers.
Monitoring failure	Please check the authorization number is set to the correct time
Device is not online	<ol style="list-style-type: none"> 1. Check whether the SIM card is installed correctly 2. Whether the power switch is on or not 3. Check the status of the LED indicator; please refer to the instruction of the indicator. 4. Check the IP and ports. Please consult the supplier specifically.
Platform offline	<ol style="list-style-type: none"> 1. Dial the SIM card number and whether the call is normal. 2. Does the equipment in the basement and so on where here isn't GSM signal? 3. Is the SIM card in arrears? 4. Whether GPRS data is normal or not?