



LYNKWORLD LW2G-12F GSM Terminal Instructions

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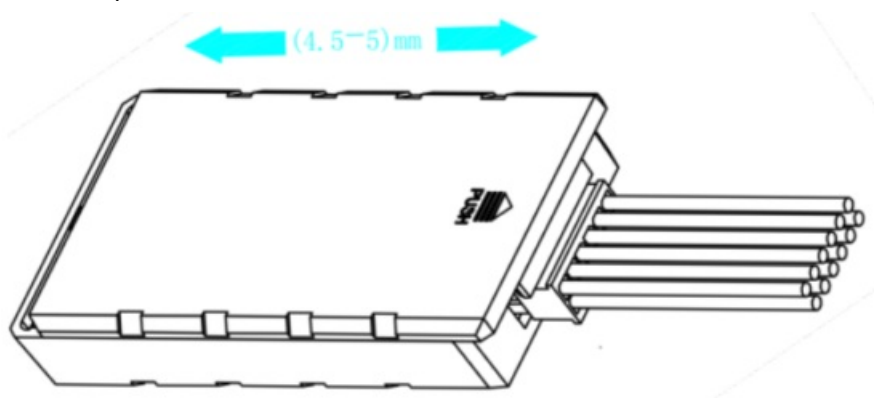


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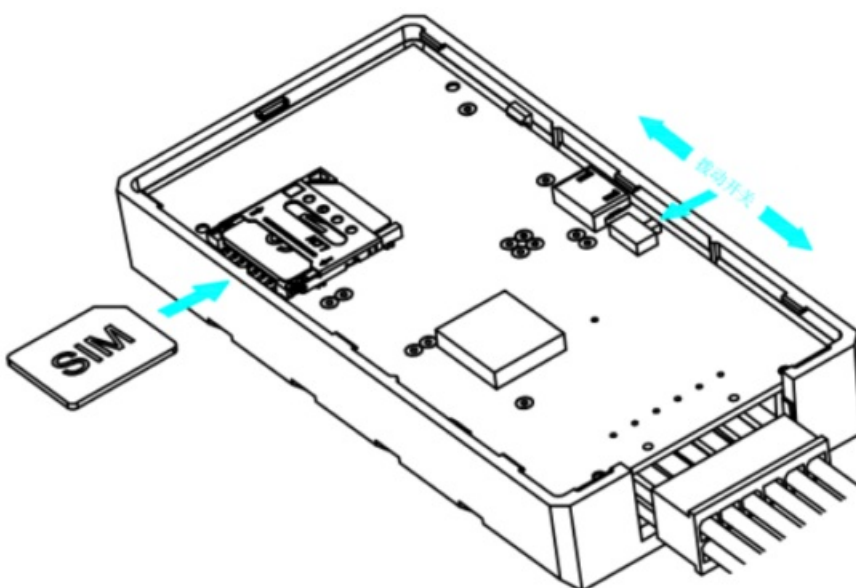
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Ready to Start

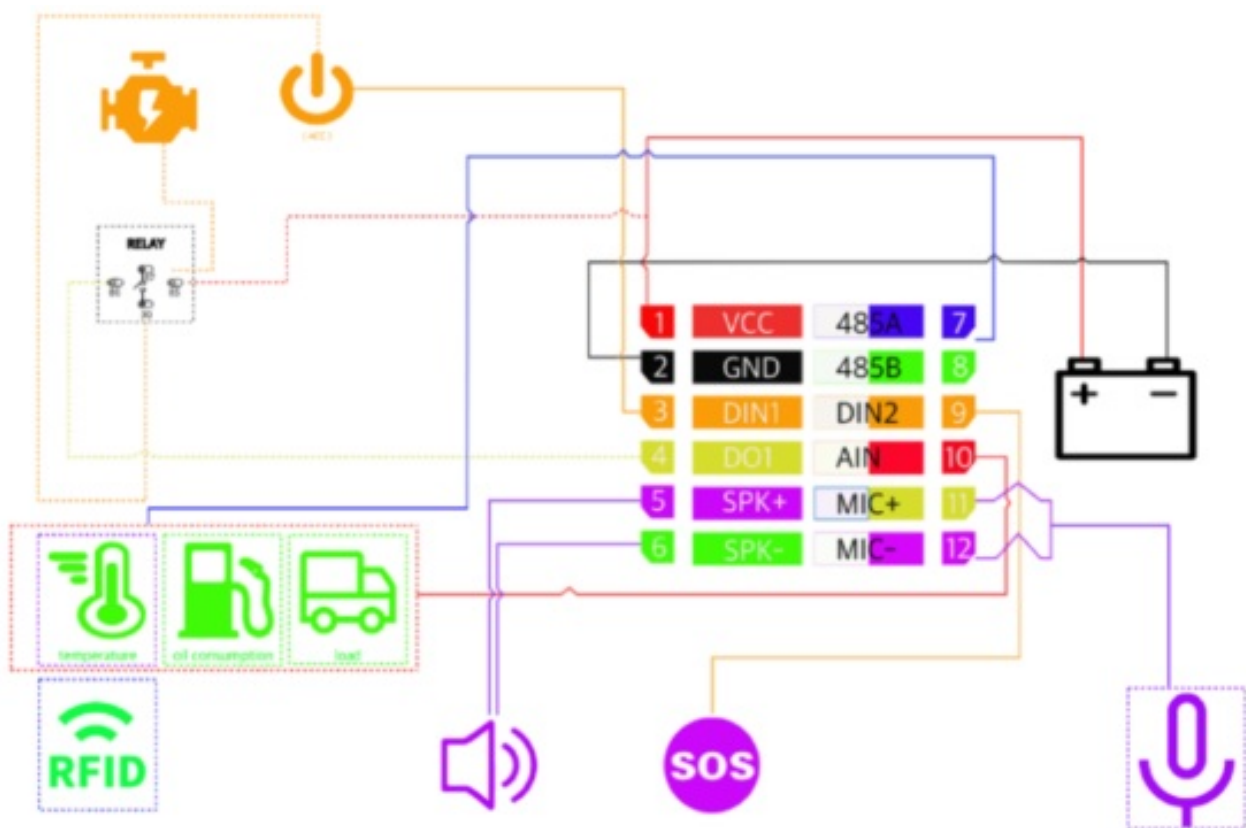
- Slide to open



- Assembly the SIM card and turn on the switch



Wiring Scheme



Quick commands

Function	SMS command
Backend server parameter settings	SERVER,1,Domain,port,0# SERVER,0,IP,port,0#
Setting the APN	<p>APN,<Internet Name># APN,<Internet Name>[,Username][,User Password]#</p> <p>Use custom APN parameters to turn off APN adaption.</p> <p>APN#</p> <p>Query the APN parameters currently in use.</p>
Centre number setting	CENTER, A, Centre Number#
Enquiry Status	STATUS#
Query parameter settings	PARAM#
GPS data timing interval	<p>TIMER,T1,T2#</p> <p>T1=5 60 s ACC ON Status Upload Interval T2=5 60 s ACC OFF Status Upload Interval</p>

Safety Information

This message contains information on how to operate LW2G-12F safely. By following these requirements and recommendations, you will avoid dangerous situations. You must read these instructions carefully and follow them strictly before operating the device!

- The device uses SELV limited power source. The nominal voltage is +12 V DC. The allowed voltage range is +9 ... +90 V DC.
- To avoid mechanical damage, it is advised to transport the device in an impact-proof package. Before usage, the device should be placed so that its LED indicators are visible.
They show the status of device operation.
- When connecting the 12 connector wires to the vehicle, the appropriate jumpers of the vehicle power supply should be disconnected.
- Before unmounting the device from the vehicle, the 12 connector must be disconnected. The device is designed to be mounted in a zone of limited access, which is inaccessible to the operator. All related devices must meet the requirements of EN 60950-1 standard.
The device LW2G-12F is not designed as a navigational device for boats.



Do not disassemble the device. If the device is damaged, the power supply cables are not isolated or the isolation is damaged, DO NOT touch the device before unplugging the power supply



- All wireless data transferring devices produce interference that may affect other devices which are placed nearby.



- The device must be connected only by qualified personnel.



- The device must be firmly fastened in a predefined location.



- The programming must be performed using a PC with autonomic power supply.



- Installation and/or handling during a lightning storm is prohibited.



- The device is susceptible to water and humidity.

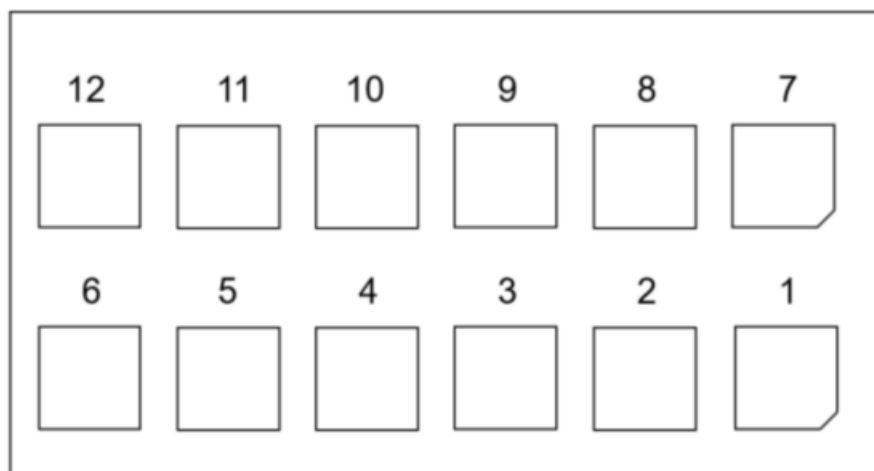


- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



- Battery should not be disposed of with general household waste. Bring damaged or worn-out batteries to your local recycling center or dispose them to battery recycle bin found in stores.

Wiring Harness Definitions



Product Name: LW2G-12F,

Dimensions: 81(L)*43(W)*15.6(T)mm,

Weight: 49.5g

Positioning Methods: GPS, BDS

Product Certification: CE,FCC

Product Introduction

Positioning Information Upload: Upload the positioning information such as longitude and latitude according to the interval setting

On/Off State: Each uploaded data packet contains ignition status

External Power Cut-off Alarm: When the GPS tracker detects that the external power supply is disconnected, the device will report the power cut-off alarm (turn on the battery backup).

Low Power Alarm/Battery Low Alarm: When the GPS tracker detects that the external power is too low, the low power alarm will be reported.

Remote Oil/Circuit Cut-off: Remotely send commands to control on/off oil/circuit (relay needed)

Crash Alarm: Upload the crash alarm when a car crash occurs (built-in acceleration sensor)

Driver Behavior Alarm: Harsh acceleration, harsh braking, harsh cornering status upload (built-in acceleration sensor)

Tow Alarm: When the ignition is off, tow alarm will be uploaded if the vehicle front is raised and displacement occurs.

Geo Fence: Send the geofence data through the platform, generate geofence alarm when the vehicle enters or exits the area, 10 hardware geofences supported

SOS Alarm: Use the button to trig the SOS alarm

Vibration Alarm: When the ignition is off, if vibration happens then upload alarm information.

Over-speed Alarm: Upload alarm information when the speed exceeds the set value

Message Buffer: Positioning data will be stored in buffer when in network blind spots, and upload the data later when the tracker connects to network. Buffer Memory: 1000

Supplementary Upload at the Corner: Upload extra data at the corner, refine turning trace

Power-saving Mode: Switch to standby mode when the vehicle is stationary

OTA: OTA supported

Protocol Customized: Multiple communication protocols customization supported

RS485: 485 interface (sensors with 485 interface) supported

AIN: Analog or analog type equipments and peripheral devices supported

DIN: Digital signals (such as SOS) or digital type equipments and peripheral devices supported

MIC: Remote monitoring supported

SPK: Voice broad cast supported

Power Supply

External Power Supply: 9-90 VDC

Built-in Backup Battery: 140mAh Li-ion Battery

Technology

Technology: GSM

Quad Band: 850MHz/1900MHz

GSM Antenna: Built-in High Gain GSM Antenna

GPRS Specification: Class 12

Data Path: SMS, Platforms

Satellites Positioning

GNSS: GPS, BDS

Positioning Accuracy: <2m CEP

GNSS Antenna: 25mm*25mm*4mm ceramic antenna

Capture Sensitivity: -148dBm

Warm Start: -156dBm

Recapture Sensitivity: -159dBm

Tracking Sensitivity: -167dBm

Positioning Time (open sky): Cold Start: 27s, Warm Start: 1s

Operating Environment

Charging temperature: -40°C to 45°C

Protection Degree: IP41

Operating Humidity: 5% to 95%

Hardware Configuration

LED Indicators: GSM, GNSS Indicators

Micro USB: Firmware Upgrade and Tuning

SIM Card Slot: Micro-SIM/E-SIM

Gravity Sensor: Three Axis Acceleration Sensor

VCC 1

GND 1

485A 1

485B 1

DIN 2 (DIN1:High Active DIN2:High/Low Active)

AIN 1(0-5V)

DO 1

MIC+ 1

MIC- 1

SPK+ 1

SPK- 1

LED Indicators Definitions

GSM Orange: Fast Flashing: GSM is initializing , Slow Flashing: GSM signal is normal , Always on: GPRS working , No Flashing: No GSM Signal / SIM Card

GPS Blue: Fast Flashing: Searching for GPS signal ,Always on: Position Captured ,No Flashing: GPS sleep / GPS not working

RF Frequency:

GSM 850 (U.S.-Band: 824.2 – 848.8 MHz)

PCS 1900 (U.S.-Band: 1850.2 – 1909.8 MHz)

RF-Output Power:

2G: GSM 850 33.55dBm; PCS 1900 :28.44dBm

Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

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 device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

FCC RF Radiation Exposure Statement:

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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



Documents / Resources

	<p>LYNKWORLD LW2G-12F GSM Terminal [pdf] Instructions LW2G-12F, LW2G12F, 2A4FJLW2G-12F, 2A4FJLW2G12F, LW2G-12F GSM Terminal, LW2G-12F, GSM Terminal</p>
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