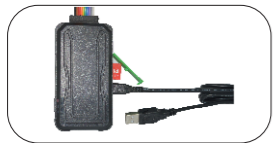




Model No. L-100



**USER MANUAL L-100**



MANUAL VERSION # L100\_V0.1  
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**PACKAGING CONTENTS:**

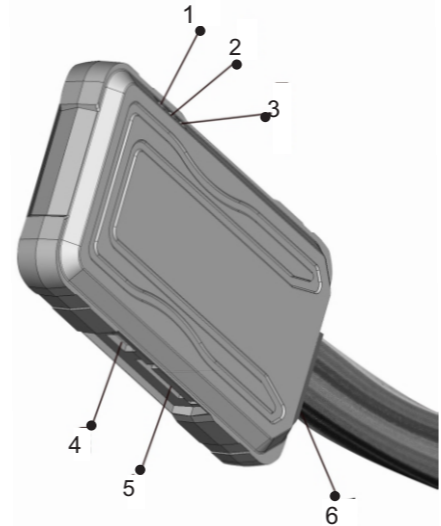
Unpack the L-100 Box carefully, in the package you may find:

1. L-100 Tracking Device
2. Wiring harness
3. Fuse
4. Relay with socket \*
5. Panic button\*
6. User manual

❖ Note-Some of the accessories shown above are optional and need to be purchased separately

**Features**

1. High sensitive GPS chipset.
2. Combination of GPS, GSM/GPRS wireless network.
3. Durable and highly reliable GPS tracker.
4. Easy to install or hide in the vehicle to perform tracking.
5. Ideal for vehicle tracking and equipment/assets monitoring.
6. External DC power supply.
7. Configuration can be done via SMS commands.
8. Real-time GSM/GPS location monitoring on SMS and website.
9. Vehicle control with Immobilization.
10. Generation of reports on web-site in html/xls format. Reports include drive/stop summary, performance (based on speed), detail (with time, date, latitude, longitude, speed).
11. Replay and analysis of trip logs.
12. Add on users with customized access to web accounts
13. Door sense.
14. Vehicle control function (Ignition off/on) can be started /stopped by the user..
15. Easy installation and easy SMS commands.
16. If wrong SMS command sent by the user then, L-100 will delete SMS and send "SMS NOT ACCEPTED" to user mobile number.
17. User would get a map link on mobile with Latitude /longitude.
18. Over The Air (OTA) software updation.



1. GPS
2. GSM
3. BATTERY STATUS
4. USB
5. SIM
6. WIRING HARNESS

19. User can get the ODOMETER reading on Mobile as well as on website.
  20. Panic Button can be used to generate SMS in case of emergency.\*
- \*Note:-This function will work if you have additionally purchased the Panic Button Kit.

**PRECAUTIONS:**

While washing the engine, protect the L-100 by all suitable means from being struck directly by water jet or flow. The GSM functionalities are dependent on the network. postpaid/prepaid SIM card can be used. Pay special attention to the amount of remaining credit & expiry date of mobile connection in case of prepaid SIM card.

"ARM MODE" commands will immediately bring the vehicle to a sudden halt. Hence, we strongly recommend that these commands should not be used when vehicle is moving, as sudden stop may result in some mishappening.

**HARDWARE DESCRIPTION:**

- a. Power Requirement: 8V to 40V
- b. Normal operation temperature: -30°C to +80 °C
- c. Restricted operation temperature: Above -40°C and below +85 °C
- d. Storage temperature: -45°C to +90°C
- e. Humidity: 5% to 95%

**INSTALLATION PROCEDURE:-**

**Steps:-**

- Set up the required wiring as per the wiring diagram using the Harness and Fuse provided in the package

- Open the Green strip as shown.



- Insert SIM card in to the SIM Slot as shown, make sure that the mobile number is recorded
- LED indicator started glowing, if the internal Battery is charged
- ❖ Note:- Inserting SIM card will switch ON the device so remove the SIM card if the device is not fitted to vehicle to save internal battery.
- Connect the device to the wired harness and wait for Indicators.
- Within 10 to 40 seconds, the unit will begin to work and acquire the GSM signal as well as the GPS signals. The GSM indicator (**GREEN LED**) will flash when the unit has registered with GSM network.
- Once the GPS signal is valid. The GPS indicator (**BLUE LED**) starts blinking.
- Both the indicators would be "ON", if no GSM & GPS signal available.
- **RED LED**- Indicates the battery charging, if LED is ON means Battery charging, Blinking means battery FULL
- Use the following SMS commands to configure and start tracking.

**LED Indication**

- RED: Battery charging indication, ON→ Battery charging, Blinking→ Battery charged.
- GREEN: GSM indication, ON→ out of network, Blinking at every sec.→ GSM signal available.
- BLUE : GPS indication, ON→ GPS NOT FIX, Blinking at every sec.→GPS FIX

**SMS COMMANDS DESCRIPTION:**

1. **PW::1234;<password>** - This command is used to change the password. After this command the password will be 1234
2. **SYSSTARTZ::+919876543210;<password>**  
This command is used to register the L-100 with Subscriber number. Now L-100 will send alerts to the number +919876543210. Confirmation message "SYSTEM START HAS BEEN ACTIVATED" will be received.
3. **SYSSTOPZ<password>**  
This command is used to stop the system with Subscriber number. (Now a new number can be registered with L-100).
4. **IMEI<password>** -L-100 will display International Mobile Equipment Identity Number (15 Digits).
5. **ARM<password>** -L-100 will start monitoring the vehicle. It will start sensing the doors & ignition, cut the ignition of the vehicle and confirmation message "ARM MODE HAS BEEN ACTIVATED" will be received.
7. **#CONFIG::APN::username::password;<password>**  
-This command is used to configure GPRS settings  
APN (access point name) which is used to get to the GPRS gateway provided by network operator.

Username: for your GPRS account, username is provided by network operator or else leave it blank,if advised by network operator.  
 Password: for your GPRS account, password is provided by network operator or else leave it blank,if advised by network operator.

8.#CONFIG?<password> - This command replies with GPRS APN, User Name and Password already saved.

**Response:**  
 1).APN: XXX,(GPRS USERNAME:)XXX,(GPRS 2).PASSWORD)XXX

9. To start live tracking on internet :  
 Send "WEBSTART<xxx/H/M/S><password>" to L-100, L-100 will send confirmation SMS and then start sending data to our web server.

- xxx means digits from 001-999
- H means HOURS,M means MINUTES,S means Seconds

**Example** – when we send the command WEBSTART002M<6906>, L-100 will start sending the data to web server at 2 minutes interval.

1. **DBT<xxxM/K><password>** L-100,will send confirmation SMS and then start sending data to our web server as soon as covering the set distance and on deviation of 50 degree from the normal course.

- xxx means digits from 001-999
- M means METERS, K means KILOMETERS

**Example** – when we send the command DBT500M<6906>, L-100 will start sending the data to web server at every 500 meters and on deviation of 50 degree from the normal course..

10.**SDBT<password>** :-this command will stop the distance and angle based tracking

11.To port the device to a server  
 Command to port the L-100 to the required server (with IP and PORT)

**#SERVERCHANGE::IP::PORT;<password>**  
**Example:-**  
 #SERVERCHANGE::196.168.175.12::20000;<6906>, this command would point L-100 to the server with IP=196.168.175.12 and Port=20000.

1. To get GPS data for one time  
 Send "GETGPS<password>" to L-100

**Response:**  
 L-100 will send:

1)If the GPS satellites are unreachable, you will receive "GPS NOT FOUND"

2)If the GPS satellites are reachable, you will receive Web link to view location (It will show you the location on map)\*

Speed: XXX (It will tell you the speed of the vehicle in KM/H)

Date: XXX (It will tell you the date of this particular data)

Time: XXX (It will tell you the time of this particular data in IST)Indian Standard Time.

To observe the exact location on Google map for a corresponding LAT – LONG, open www.maps.google.com, in the search bar enters the latitude and longitude coordinates separated with a comma (,). It will show you the location.

2. **SLEEPON<password>**:

Sleep mode is used to deactivate data sending on GPRS when the vehicle is stationary for a particular time. As soon as the Vehicle starts moving again the tracking will start sending data again. This mode is provided to save battery when the Vehicle is in stand still

1. **SLEEPOFF<password>**  
 This command is used to disable SLEEPON mode  
 ❖ **Note:-**By default sleep mode is OFF.

10.**SDL::XXX;<password>**  
 This command is used to set the number of data packets to be saved in the memory in sleep mode. The default value for the same is 25, means in sleep mode the device would save 25 packets as per tracking interval and then send all the data from memory once the memory data count became 25.

11.**SYSSTATUS<password>**  
**Response:**

MPON/MPOFF Main power status  
 IGNON/IGNOFF Ignition status  
 ARM/DISARM Immobilizer status  
 A/C ON/A/C OFF A/C status  
 DOOR OPEN/DOOR CLOSED DOOR status  
 LS HIGH(R)/LS LOW(R) Reserved low sense input  
 DBGON/DBGOFF No meaning  
 BP: 95 Battery level in percentage

12.**SETODO::12345; <password>** -- This command is used to calibrate the odometer where 12345 is the present odometer reading.

13.**SETODO? <password>** --- This command is used to get/read the present accelerometer reading of vehicle.

14.**CO?<password>** -----This command is used to check the GSM operator name.

15.GPRSSTATUS

This command is used to get the complete status of the device, and the command format is **GPRSSTATUS<6906>**.

Description of the reply

Entries	Description	Remark
CN:	Current network	
SOFF	Sleep status	SOFF for SLEEPOFF and SON for SLEEPON
SS	GSM Signal strength	Should be >10 for proper GPRS comm..
CC	Current configuration	Currently using APN,UN,PWD
IP	Server address	Currently using Server details(IP,PORT)
WTI	Webtracking interval	Web tracking interval
IMEI	IMEI of device	IMEI of device
DID	Device ID	15 Char Device ID
GPS	GPS availability	A= available, V= void
SF	Data sending fail	
CF	Connection fail with server	
PD	PDP Deact error	Network error occurs normally if APN is wrong
MUC	Internal memory data count	
SDL	Sleep Data LIMIT	No. packets saved in sleep(25 default)

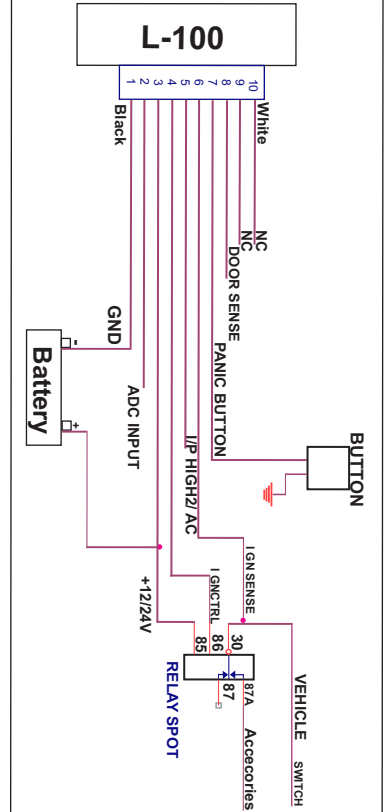
16.**Single command to set all parameters for tracking**  
 #CC::APN,APNusername,APNpassword,IP,PORT,TrackingInterval,SDL;<password>  
 Where APN:\_ is the APN of network, APNusername:\_ Username of operator, APN password:\_ Password of operator, IP:\_ IP of server to which data is to be sent, PORT:\_ Port number of the server, Tracking interval of device, SDL:\_ Sleep data limit(Number of packets to be saved in sleep mode)

Eg:  
 #CC::airtelgprs.com,abc,12345,12.32.43.54,222,0305,25;<6906>

❖ **Note:** commands starts with "#"are case sensitive

**TROUBLE SHOOTING:**

S.NO	SCENARIO IN GENERAL	TROUBLE SHOOTING
1.	No LED indication	<ul style="list-style-type: none"> <li>• Check SIM card position</li> <li>• Check the Harness wiring</li> </ul>
2.	GREEN LED not blinking at 1 sec. interval	<ul style="list-style-type: none"> <li>• Check SIM card validity</li> <li>• Check SIM security settings(No PIN recommended)</li> </ul>
3.	BLUE LED not blinking	<ul style="list-style-type: none"> <li>• Check the side marked as "THIS SIDE UP" is facing sky.</li> <li>• Keep the device in open space for 2-3 minutes for GPS fix.</li> </ul>
4.	SMS not accepted : "WRONG COMMAND"	There may be some spelling mistake in the command or the command may be invalid. Please recheck the command phrase and resend.
5.	No response from L-100:	<ul style="list-style-type: none"> <li>• Check your balance in case of prepaid connection.</li> <li>• Check the network status. (No or weak network connection could be the reason)</li> <li>• Resend the desired commands again.</li> <li>• Reset the L-100.</li> <li>• Check the password</li> </ul>
6.	SMS is not Delivered:	Please check the network status.
7.	"NO DATA" from device	<ul style="list-style-type: none"> <li>• Check GPRS availability of SIM card</li> <li>• Check server settings</li> <li>• Check response of "GPRS STATUS" command for various GPRS parameters.</li> </ul>
8.	I/O status not Proper/ not getting Alerts	<ul style="list-style-type: none"> <li>• Check harness wiring</li> <li>• Register the controlling number.</li> </ul>



**Features**

- Anti theft
- Base station positioning
- Built in antenna
- Low voltage alarm
- Vibration alarm
- Speeding alarm
- Sleeping mode for saving power
- Geofence
- Tracking via SMS
- Small size
- Water proof
- Power cut off alarm
- Displacement alarm
- Dormant lock anti theft
- Mileage statistics
- Trace play back

**Specifications**

- working voltage 8-40v
- Working current Sleeping mode≤ 6mAh;working mode ≤70mAh
- GSM frequency GSM850/EGS900/DCS1800/PCS1900
- GPS sensitivity -159dBm
- GPS accuracy Better than 5meter
- Cold start 50-1000 meters
- Warm 0.1 meter/s
- Hot start Less than 35s
- Working Less than 30s
- temperature Less than 2s
- Humidity of storage -30C~+70C
- Relative humidity -40C~+85C
- Backup battery/ Working time <95% 3hours
- Size 84mm x 50mm x 16mm
- Net weight 68gm

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