FL-100 User Manual (Version 1.1)	Table of Content 1. PACKAGING CONTENTS 2. FEATURES 3. PRECAUTIONS 4. HARDWARE DESCRIPTION 5. INSTALLATION PROCEDURE 6. LED INDICATORS 7. SMS COMMANDS DISCRIPTIONS 8. MAIN CONNECTOR WIRING DETAILS 9. TROUBLE SHOOTING 1. PACKAGING CONTENTS: Unpack the FL-100 Box carefully, in the package you may find: 1. FL-100 Tracking Device 2. Wiring harness	 FEATURES: High sensitive GPS chipset. Combination of GNSS, GSM/GPRS wireless network. Durable and highly reliable GPS tracker. Bluetooth (5.0) Easy to install or hide in the vehicle to perform tracking. Ideal application for vehicle tracking and equipment/assets monitoring. External DC power supply. Configuration can be done via SMS, GPRS and BLE commands. Real-time GSM/GPS location monitoring on SMS and website. Vehicle control with Immobilization. Vehicle control function (Ignition off/on) can be started /stopped by the user. Easy installation and easy SMS commands. If wrong SMS command sent by the user then, EL-100 will delete SMS and send "SMS NOT ACCEPTED" to user mobile number. User would get a google map link on mobile with 	 3. PRECAUTIONS: While washing the engine, protect the EL-100 by all suitable means from being struck directly by water jet or flow. The GSM operations are dependents on the Network availability. 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 mishappenings. A. HARDWARE DESCRIPTION: a. Power Requirement: 9V to 90V b. Normal operation temperature: -30°C to +70 °C c. Restricted operation temperature: Above -40°C and below +85 °C d. Humidity: 5% to 95% 	 5. INSTALLATION PROCEDURE :- Steps:- Set up the required wiring as per the wiring diagram using the Harness and Fuse provided in the package. Insert SIM card in to the SIM Slot, make sure that the mobile number is recorded Turn ON the Switch to start the device Indicators started showing if the internal battery is charged. 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 Blink when the unit received the GSM signal. Once the GPS signal has received. The GSP indicator (BLUE LED) starts blinking. Both the indicators would be ON if no signal available. RED LED- Indicates the battery charging, if Orange LED is ON means Battery charging, if Red LED is ON means battery FULL (but Main Power is connected), OFF means Main Power is
	 Fuse Relay with socket* Panic button* User manual Note- Some of the accessories shown above are optional and need to purchase separately 	Latitude /longitude. 15. Over The Air (OTA) software updating. 16. GUI for configuration through PC/BT. 17. Panic Button can be used to generate SMS in case of emergency.* 18. All legislated OBD-II Protocols, Non-Legislated OBD Protocols & Heavy-Duty Supported. *Note: - This function will work if you have additionally purchased the Panic Button Kit.		disconnected. • Use SMS commands or USB to configure and start tracking, Please refer to the GUI Manual for USB configuaration.
	 7. SMS COMMANDS AND WEB TRACKING > The Device can be controlled through SMS and GPRS commands > EL-100 would accept SMS commands from any mobile numbers if the password is correct. > EL-100 can accept command on GPRS from the connected server > EL-100 can send data on any alert (I/O change) > EL-100 can send data on set distance and 25 degree angles, if distance tracking enabled SMS COMMANDS DESCRIPTION: EL-100 would accept commands from any number if the password provided is correct. The password is a four digit number. The users can change the password of their device. EL-100 would reply to all commands send by user. Example:- The command format would be Command Command password to get FIRMWARE VERSION would be VERSION<6906> Note:- the brackets (< , >) are must in the command 	Eg: PW::1234;<6906> STORE DEVICE ID • DNS::123456789123456; <password> -This command is used to set the device ID, the maximum length of device ID would be 15 digits. Here after the device will replace the IMEI number with thi ID in protocol. IMMOBILIZE THE VEHICLE</password>	To save configuration #config::APN::username::password; <password> - This command is used to configure your GPRS account. 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 your network operator or else put ABC. Password: for your GPRS account, username is provided by your by network operator or else put ABC. Password: for your GPRS account, username is provided by your by network operator or else put ABC. Response: "GPRS configured successfully:" "GPRS APN: XXX" "GPRS VISER NAME: XXX" "GPRS PASSWORD: XXX" #config?<password> - This command replies with GPRS APN, User Name and Password already saved. Response: i)GPRS APN: XXX GPRS VISERNAME: XXX GPRS VISERNAME: XXX GPRS PASSWORD: XXX ii) No GPRS_APN, Usr_nm, Pwd stored To set reporting interval : "WEBSTART<xxxh m="" s="">,<yyyh m="" s="">,<zzzh m="" s=""><password>" Command to set the tracking interval and you will get confirmation SMS and then start sending data to our web server. xxx means digits from 0-9 H means HOURS (the system will accept from 1 to 24 hours, it will reicet heor the outpend read to nour web hereor.</password></zzzh></yyyh></xxxh></password></password>	M means MINUTES (the system will accept from 1 to 60 minutes, it will reject less than 1 minute or more than 60 minutes) S means Seconds (the system will accept from 1 to 60 seconds) Where xxx stands for active interval, yyy stands for passive interval and z stands for panic interval. Example – when we send this command WEBSTART002M,030M 030S <password> the device will start sending the data to our web server at active interval of 2 minutes and passive interval of 30 minutes and at 30 seconds in panic interval To port the device to server Command to port the device to the required server (with IP and PORT) #serverchange::IP::PORT;<password> Command to port the device to a server Example:- #serverchange::196.168.175.12::20000;<password>, This command would point Device to the server with IP=196.168.175.12 and Port= 2000. Some General commands FE<password>Command to erase the memory data To get GPS data for one time Send "GETGPS<password>" to the device. Response: The device will send back: If the GPS satellites are unreachable, you will receive "GPS NOT FOUND" If the GPS satellites are reachable, you will receive</password></password></password></password></password>
Blinking at every sec GPS FIX Lat: XXX (It will tell you the latitude of the location) Long: XXX (It will tell you the speed of the vehicle in KPH) Date: XXX (It will tell you the speed of the vehicle in KPH) Date: XXX (It will tell you the time of this particular data) Time: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) IMEI: XXX (It will tell you the time of this particular data in IST) Web link to view location (It will show you the location on map)* 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. SETODO::12345; <password> This command is used to calibrate the o</password>	minitoinizer status PANIC OV / PANIC OFF PANIC Status PANIC OV / PANIC OFF No meaning DBON Reserved Field DIPOFF O/p2 status GOUTON / GOUTOFF CAN COM OBDCE Odometer (KM) 0.00 On board temp.(NA) 0 Battery Voltage (internal) 4.0 GPRSSTATUS <password> 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 Comment network OSFF Sleave status SOFF Sl</password>	PID? <password> This command is used to query the OBD parameters set in EL00 device. Response: PIDs configured as PID@010C:04: 05:04@0103:04: 05: 04@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@</password>	Interains notices (the system win accept notin 1 to 24 notins, it win reject less than 1 hour or more than 24 hours) S. MAIN CONNECTOR WIRING DETAILS	<image/> <section-header></section-header>