



SATWAY®

WE ARE LEADING MANUFACTURER OF IRNSS TRACKING DEVICE



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1 GPS Satellite



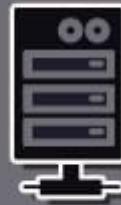
2 Vehicle With GPS Tracking Device



3 Wireless Network



4 GPS Servers



5

Real-Time Tracking Of Your Vehicle



**HOW
GPS
VEHICLE
TRACKING
SYSTEM WORK**

SATWAY VYOM AIS140 APPROVED VEHICLE TRACKING SYSTEM

SATWAY VYOM is IRNSS-GNSS vehicle tracking device / hardware / unit Approved by ARAI (Automotive Research Association of India) AIS140 (Automotive Industrial Standard 140) with IRNSS/GNSS and GSM/GPRS antennas embedded within the enclosure thereby ensuring tamper-proof operation. SATWAY VYOM consists of a multi-band GSM/GPRS modem for data communication. It supports multiple Digital Inputs, Digital Outputs and Analog Inputs which enables SATWAY VYOM to integrate/interface Sensors/ Accessories like RFID, Fuel Sensors, Temp Sensors, TPMS Sensors, Relay, Accelerometer, LCD Display, Keypad, Buzzer etc. It supports protocol for Commercial and passenger vehicles. The power supply range 8V to 32V and provides protection against surges, short circuit and reverse battery connection. Battery backup is available for stand-alone operation. IP protocols for the communication with the server. SATWAY VYOM has on-board backup memory to store data packets in areas with no network coverage

The hardware system ensures uninterrupted transmission of instantaneous details from the GNSS downlink and other vehicle parameters connected to the various input channel of the device. The data traffic of the device is limited to a standard frequency and transmission occurs at the most reliable 2G spectrum. This document covers the basic instruction for handling and installation the device.



FLEET MANAGEMENT SOLUTIONS (AIS140)



Real time Tracking

This key feature allows you to trace your vehicle down to the seconds. Unlike our competitors nationally or otherwise, we help track your vehicle with utmost precision and provide you with even the minute details.



Fuel Monitoring

Satway brings you the most innovative and challenging achievement in fleet management. With our state-of-the-art software and hardware, you will be notified about the vehicle's fuel refill and pilferage at a superior accuracy. Thus the user gets to know the correct quantity of fuel filled or pilfered from the sump with exact location and time.



Temperature Monitoring and other Sensors

Satway can also monitor your cargo temperature in real time and alert you in case of any sudden incidents. Satway can also incorporate other sensors like door, air conditioning, seatbelt and other parameters in order to keep track of each and every minute activities of your fleet.



Driver Identification

Satway Compass with its Superior 1-wire technology can incorporate different Driver Identification techniques like iButton, RFID etc. to exactly monitor and analyze the attendance and driving behavior of each and every Driver handling your Fleet.



Immobilizer with Safety Alarm

Using Satway you can start or stop your vehicle using your phone or PC. The immobilizer module installed in the vehicle along with the Satway Control Unit can immobilize or start the engine remotely with a preset intimation alarm in the vehicle cabin.



Efficient Route-tracing Technology

Using our 'Route Trace' technology, Satway can offer you information about complete route travelled by your vehicle during any time intervals back in history with the detailed information of any halts made in between with their individual durations.

FLEET MANAGEMENT SOLUTIONS (AIS140)



Multi-level user management

Satway allows you to create sub user accounts that can be distributed to and maintained by your officers or assistants. Each of the fore mentioned Satway features could be custom-set to these sub user accounts, so that only required information needs to be shared with the subs.



Vehicle Records Manager

Satway can store many of the vehicle records like insurance details, tax details, RC details, Pollution Certificate details etc. Moreover it can notify you while the time of its expiry.



Trip Management

You can schedule your vehicle's trip between any two locations. And hence you will be notified instantly when the vehicle leaves the starting point and reaches the destination.



Data History

Satway offers its valuable customers a highly secured data pool where all the incoming information about the vehicles, users and other applications are stored, sorted and structured. Hence the user can access any previous history about the vehicle position, routes, reports and expenses anytime through his phone or PC.



Over Speed Alerts

Now you can set the maximum speed limit of your vehicle. So that Satway will monitor it 24x7 and in case if it is crossed you will be instantly with that speed and location, moreover it will be recorded in the log book for future reference



Geo-Fencing

Satway allows you to create virtual boundaries across your home, garage, and worksite and anywhere around the world. So that each time your vehicle crosses these boundaries, you will be notified and recorded in the logbook.



Reports and statistics

Satway lets you generate automatic reports and statistics on your desired parameters to aid in performance evaluation of your fleet

OUR TECHNOLOGY

AIS-140 Standard, ARAI Certified

The GPS Device is complied with AIS-140 Standards, certified by ARAI (Automotive Research Association of India, Research Institute of the Automotive Industry with the Ministry of Heavy Industries & Public Enterprises, Govt. of India)



Real Time Location

School bus monitoring system is a web based application available 24x7 with the school administrator to monitor entire fleet of buses.

Flexibility

Quality software which can be run on any smart phone for driver or parent and on any desktop or tab with internet for school admin.



Safety Assurance

Both parent and school authorities can monitor bus route violation. Over speed incidents, unscheduled stops and driver information.

Apps

Admin app, Parent App, Driver app (Android & IOS)



HARDWARE FEATURES

- Quad Band GSM – 850/900/1800/1900Mhz
- GNSS Downlink with 1.5 meters accuracy
- Superior FOTA (Firmware Over The Air) capability for updating the Device Firmware remotely
- Two way GPRS communication for controlling the device through Satway Portal
- 4 Digital Inputs and 2 Digital Outputs | 2 Configurable Digital Input-Outputs
- 1-wire Protocol
- Serial - RS485 Communication
- 2 Analogue Inputs
- Accelerometer and Gyro sensor
- Waterproof with IP65 grade protection
- Embedded SIM with Dual Operator Capability
- Variable DC Power input Range from 8 – 32Vdc
- All antennas inbuilt (Tamper Proof)
- Inbuilt battery

