

The VeriWise™ SATS100 product is a self-contained, battery powered, satellite-based mobile telematics unit which provides cost-efficient and reliable asset tracking and fleet management. It combines the latest simplex data service, satellite-based communications, GPS and RF technologies with an innovative multi-life battery design to deliver a “place-and-play” long life solution that is easily installed without the need for an external power source.

Housed in a compact, rugged enclosure, the SATS100 sends information in real time at preset intervals to the Globalstar satellite network which relays the information to ground stations. The data is then available to you via the internet.

VeriWise Features

- Best-in-class technology
- 24-hour secure access to user interface ... with visual asset mapping
- Exception management of data
- Reporting tailor-made to fit your operations
- Collaboration with respected industry experts and global channel partners
- Installation, repair and maintenance support ... comprehensive European workshop and mobile van network
- A transport-focused Helpdesk ... open 24/7 and in multiple languages
- GE brand and reputation ... global R&D capabilities
- Extensive telematics and transport industry experience
- GE FleetAdvice™ consultancy experts using Lean Six Sigma methodology and tools

Technical Specifications

Communication	Satellite based
Enclosure dimensions	2.54 cm x 15.8 cm x 23.5 cm
Casing	IP67 rated Lexan, Color 428C
Weight	720 g
Operating temperature	-30°C to +60°C
Power supply	Lithium battery
Battery life	7 years (2 messages/day) *
Battery replacement	Field replaceable (14 screws)
Programming	Field programmable / configurable

* Under normal open air placement scenario (not intended for long periods of use undercover)

Certifications & Standards

Environmentally tested to transportation standards for: temperature, humidity, salt spray, splash/immersion, pressure wash, vibration and shock.

Product Datasheet: SATS100



Functional Description

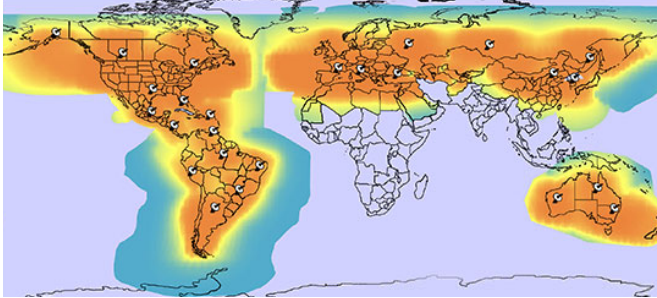
Power

- Self-contained, battery powered – no external power source required

Communications

- Utilises Globalstar satellite network
- Simplex communication channel

Figure 1: Global satellite communications coverage .



- Primary service area
- Extended service area (customers may experience weaker signal)
- Fringe service area (customers should expect to experience weakest signal)

Note: Coverage map satellite only. Check with GE for detailed service availability.

GPS function

- Built-in low-power 12-channel GPS receiver integrated in modem housing – no external antenna required

Easy fit options

- Smart dimensions for flexible positioning on trailer asset
- Inexpensive and quick installation using bracket and RTV kit
- Horizontal preferred mounting position

Reporting schedules

- Dependable message receipt (through internal process of message sending 3 times)
- Two basic configurations possible:
 - Fixed reporting interval - up to 12 pre-scheduled, configurable sleep intervals or time-of-wake settings
 - Motion sensor based intervals

Reporting content

- Normal messages
 - Modem ID
 - Date
 - GPS time
 - GPS location coordinate
 - Motion/stationary indicator
 - GPS lock indicator (2D/3D lock)
 - GPS fail counter
- The user interface calculates some additional parameters from normal messages:
 - Country
 - City
 - Customer proximity
 - Customer zones
 - Average speed between locations sent
- Statistics message (provides overview of operations ... typically 30-45 days)
 - # of sent messages since last statistics message
 - % of battery used and battery lows
 - # of GPS fails
 - GPS mean search time
 - Min resend interval (internal repetition)
 - Max resend interval (internal repetition)
 - # of sends per message

Interval override

- Alternate supervisory reporting schedule triggered by motion

Internal motion sensor

- Message on motion / stationary
- Engage interval override on motion for set time or while in motion

Miscellaneous

- Unique ID number

About Asset Intelligence

GE's Asset Intelligence business leverages 10 years of experience working with customers to develop and deliver the best proven vehicle telematics service, with over 150,000 VeriWise modems activated globally. Through innovative wireless communications and web technologies, our VeriWise satellite and GPRS/GSM based solutions allow you to maintain control of your assets and freight, and make timely, well-informed decisions that can boost profits, improve business performance and set a new standard in your customer service.

For more information on our VeriWise solutions, visit
www.geassetintelligenceeu.com

All specifications are subject to change for product improvement without notice.