

# Geo-TraxSATw

## Advanced Satellite Tracking Device



### Track Anything, Anywhere, Any Time

Discreet State-of-the-Art Satellite Tracking

**Benefits: Satellite Tracking with Idle (Stop Detection) Technology that minimizes operating costs.**

- Real-time satellite tracking with two-way control provides security and peace of mind.
- Discrete form-factor with low profile design.
- Safeguarding vehicles, personnel and property through instantaneous knowledge of their location, regardless of how remote.
- A cost-effective communication link that is not constrained by the geographic limitations of cellular networks.
- A hybrid device that can work in tandem with an existing GSM device, in the absence of traditional cellular coverage.



### How it Works

- Two-way communication using the Iridium Satellite network, ensuring every message is successfully sent and received.
- Simple, over-the-air setting of transmission time intervals, Idle (Stop) Detection operation and other settings.
- Simple 2-button operation, with user-defined push-button functions.
- Wide range power for use with 12, 24, or 28 volt systems.
- User manual and quick-start sheet to get you up and running quickly.

### Options

- Distance recording and reporting application for metered travel monitoring.
- Customizable LED's, push buttons and buzzer options for two-way communication with driver.
- Engineering services to customize for specific requirements.



# Geo-TraxSATw

## Advanced Satellite Tracking Device

# Specifications

## Technical Specifications

- Power:**
- Voltage operation range: 9V to 34V DC external power with reverse polarity protection.
  - Current use: 90 mA average operating, < 1mA when in sleep mode, 1 A peak on transmit.
  - Connector: 2.50mm inside diameter (0.09"), 5.50mm outside diameter (0.21") barrel plug. *\*Barrel plug has 0.3 kg (0.66 Lbs.) connect force and 3.0 Kg (6.6 Lbs.) disconnect force\**
  - Built-in power line electrical noise reduction.
  - Built-in overvoltage load dump protection to 80 volts, with 400 W peak pulse power dissipation.
- Dimensions:**
- 8.8 cm (3.5") L x 13 cm (5.1") W x 2.5 cm (1") H
  - 130 g (4.6 oz.) weight
  - UV resistant robust ABS plastic housing
- Operating Temp:**
- -40° C (-4°F) to 60° C (140°F)
- Antenna:**
- Integrated GPS and Iridium dual-mode antenna
- GPS:**
- 66 channel receiver
  - Accuracy: < 3m Circular Error Probable (50%) without Selective Availability (horizontal)
  - Acquisition: 35 sec typical to -148dBm signal (cold start), 1 sec to -153 dBm signal (hot start)
  - Tracking sensitivity to -165 dBm
- Indicators and Controls:**
- Red and green LED indicators
  - Two user-configurable push-buttons on front bezel
  - Internal buzzer
- Coverage:**
- Comprehensive global coverage through the Iridium LEO satellite network



## Geo-TraxSATw

Advanced Satellite Tracking Device



### Global Coverage Map



**Powered by a uniquely sophisticated global constellation of 66 cross-linked Low Earth Orbit (LEO) satellites, the Iridium® network provides high-quality voice and data connections over the planet's entire surface, including across oceans, airways and polar regions.**

**At only 476 miles (780 km) from the Earth, the proximity of Iridium's LEO network means pole-to-pole coverage, a shorter transmission path, stronger signals, lower latency and shorter registration time than with GEO satellites.**

**Note: This map indicates areas of potential satellite coverage only. Actual availability of service in any particular country may be subject to government approval.**

