

Zenatek Tracking System



Going beyond the known limits



The Zenatek Tracking System

The Zenatek Tracking System provides security and confidence that goods will be delivered on time and in the required conditions.

Sophisticated sensors precisely monitor environmental and security conditions. Unauthorized movements, temperature and humidity changes, opening of containers doors or any tampering can be detected and reported from virtually anywhere on Earth.

The ZTS solution capture and stores real-time monitoring data and transmit it worldwide over GSM/GPRS networks communicating in over 200 countries and equipped ships at sea.

Unlike many other modules of this type, the Zenatek Tracking Device is not required to be recovered and send back to the sender, eliminating all costs associated with these tasks (e.g. recovery personnel, forwarding, re-configuration, re-stocking, etc).

However due to its extended battery life, Zenatek having already paid for the Service, can keep using the unit until it runs out of energy and then dispose of it.

From anywhere in the world to your PC you can obtain

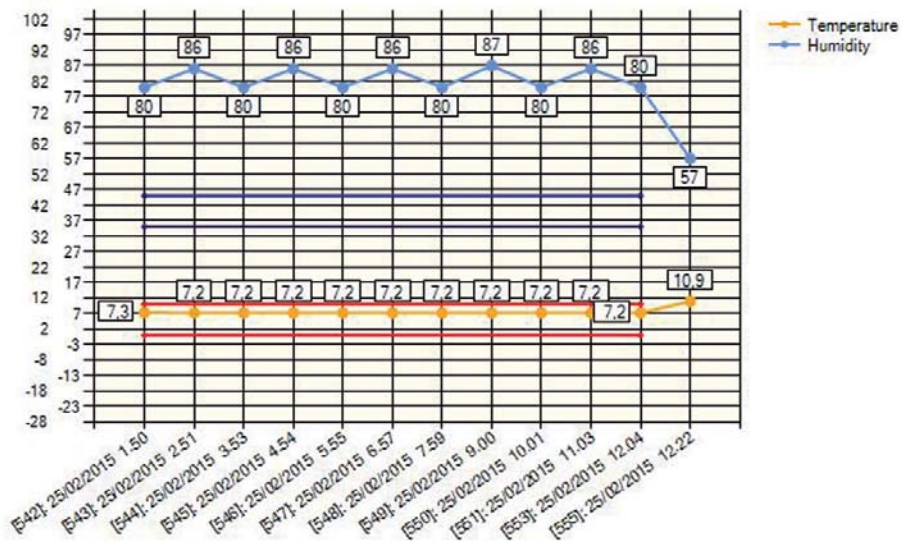




FOLLOW the container from departure to destination



LOCATE the container and follow it via satellite



ANALYSE temperature and humidity changes



Different usage purposes

Features

With no cabling, external power or antennas, installing and uninstalling this small self-contained device is easy and does not require specialized personnel and/or special tools.

Operation mode

The ZTS enables asset and goods tracking and monitoring either in container or not.

- Scheduled position tracking
- Special alert messages if anomalies are detected

Scheduled Position Tracking

The device is configured to communicate the asset position, acquired from GPS satellites and/or cellular tower signals, at pre-defined intervals, in compliance with client's requests.

Alarm Messages

The device incorporate different sensors and it may be configured to send automatic alerts. Text messages and e-mails reports the type also of sudden unexpected events.

The events include:

- Container door opening and break-in alarms.
- Inappropriate handling of the containers or good transported with a Shock detection alarm
- Device detachment alarm,
- If refrigerated containers are monitored, the detection of the internal temperature and humidity exceed the pre-defined range, than an alarm is triggered.
- If the geo-fencing system has been put in place, the monitored item get outside the defined area, an alarm is triggered.
- If installed in dry containers, an alarm is triggered when the internal temperature reaches 80°C.
- The nominal operating life of the lithium batteries is about 4 months, depending on the frequency, the amount of data transferred and extreme outside cold temperature.

Zenatek Data Analysis

The ZTS system provides real time event data and reports for the complete trip duration time, for enhancing efficient invaluable strategy, in a very short time.

Corporate Operational Centre

Zenatek offers to each client the use of the Corporate Operation Center. Your personal unique account and password allows monitoring an entire fleet of containers or assets.

Zenatek can also provide a customized 'turn-key' Operation Center. Typically for enterprise level customers or those handling critical goods, this solution assures maintenance and future software upgrades.



ZTS will help you negotiate more advantageous rates with your insurance partner. The ZTS solution aids your transport strategies, ensuring constant real-time monitoring and improving security of your goods while in transit, at a lower cost.

Technical Specifications

Hardware

- Self-contained, disposable single unit (includes electronics, antennas and batteries)
- Robust industrial design, impact resistant materials, standard IP 65 weatherproof protection grade
- Dimensions: 184mm (L) x 101 mm (W) x 44 mm (H)
- Operational temperature: from -25°C up to +80°C
- Humidity level: from 0% to 100% RH
- Storage temp.: from -20°C to +80°C
- Weight: 500 gr.

Positioning & Compliance

- Highly sensitive GPS/GLONASS receiver and GALILEO ready
- E.U. and FCC approved
- Ultrafast acquisition time
- Geo fencing
- Geo coded proof of delivery.

GSM transmitter/receiver

- Cinterion (BGS2-Rev.2), quad band GSM 850/900/1800/1900 MHz worldwide
- Quad Band Ceramic Aerial on PCB
- Configurable profile for data exchange interval
- Internal flash memory for storing messages in poor GSM coverage

Tamper sensors:

- Light sensor: to trigger alarm in case of doors opening and/or break-in
- Detachment: to trigger alarm if device have been detached from where installed

Environmental sensors

- Temperature: senses and samples internal temperature with adjustable alarm thresholds and hysteresis, in °F or °C. from -40° to +125°C accuracy Range -25/+85°C : ±0,5°C
- Humidity sensor: senses and samples internal humidity with adjustable alarm thresholds and hysteresis Range RH: 0 % to 100 % , accuracy +/-3%
- Accelerometer 3 axis: for detection of accident and crash ±2g/±4g/±6g/±8g/±16g dynamically selectable full-scale, sensitivity: from 0,06mg/digit a ±2g up to 0,73 mg/digit to ±16g; 10000 g high shock survivability
- Optical: sensitivity 1 lumen, 50/60-Hz Lighting Ripple Rejection

Communication Protocol

- Secure encrypted data transfer for maximum confidentiality and protection

Installation

- Powerful magnetic anchorage and adhesive pads
- Quick and easy positioning for initial setting and activation

Power:

- Easily switch off/on for airplane use
- Sealed lithium battery (Li-SOCl₂) size "C"
- Battery life: 4 months from triggered activation



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