GlobalTrak Kratos



Cellular Enabled Bolt Seal

FEATURES

Barrier electronic seal tamper signal transmitted when bolt is removed or cut

Quick & Simple Installation

Global GSM coverage

Zigbee Wireless LAN enables communication with other Global Trak devices

Reusable polycarbonate seal body

ISO/PAS 17712:2003 compliant plastic housing

Interfaces to other ERP, TMS, WMS, and MIS systems GlobalTrak Kratos global cellular-enabled electronic bolt seal sets a standard for cargo security. Co-developed with the world's largest seal company, Tyden-Brooks, Kratos C-TPAT compliant electronic barrier seal features enhanced security and visibility. Using Kratos is as simple as installing a standard physical bolt seal. Fully compliant with ISO Standard 17712, Kratos is a flexible cargo tracking, security, and condition monitoring device that enables asset positioning through GSM cell, ZigBee, and assisted GPS.

The **Kratos** housing can be reused; the bolt and locking cap provide a secure truck or container lock, and reliably detect cut or removal in real-time. An optional bolt with a security padlock version is available for repeated use. The **Kratos** battery is recharged through the bolt seal cavity; the device remains completely sealed. **Kratos** uses the GlobalTrak Information Management Bureau in conjunction with all communication methods to provide a robust and versatile asset monitoring solution providing security; supply chain automation; management overview via dashboards; precise measurement against performance metrics and KPIs; and the ability to detect and correct supply chain anomalies in real-time. **Kratos** supports a secured Authorized Agent Chain-of-Custody scheme similar to Registered mail.

SPECIFICATIONS:

Enclosure: Mass:	66mm x 91mm x 25mm (2.6" X 3.6" X 1.0") 170 g (6 oz with batteries)
Sensors	
Temp:	-40°C (-104°F) to +85°C (+185°F) Operating
Motion	Simple motion detection
Vib/Shock:	3-axis shock ±18, ±6, ±3 g/axis, constant monitoring
Battery:	LI-ION Rechargeable, 2000mAh, 3.6V
	6 months at I reports per day
Life Expectancy:	90 Days at 4 reports per day
	30 Days at 1 hour reporting
Door Intrusion:	Seal provides more than 2,000 lbs (907kgs; kN) of pull-out strength – bolt cutters required for removal
Motion	Integral Motion sensor (Start/Stop). Independent of
Detection:	accelerometer.
Certifications:	FCC part 15 and part 25,ETSI EN 300 328, ETSI EN 301 489-1, IP-67



2884 Devils Glen Road #133 • Bettendorf, IA 52722-3318 USA email: infor@SchwarzForensic.com • toll-free: 877. SFE. 0770 sales: 612. 325. 5371 • technical support: 563. 260. 3164

Kratos



Embedded Electronics Intelligent Security Device



Padlock Version with Reusable Bolt Seal



Embedded Tracking Version

specifications subject to change without notice



SPECIFICATIONS:

Compatibility

Coding and Authentication	Each seal contains unique ID number, electronically hard coded into the seal's data bank
Cellular Communications:	Quad-Band GSM for worldwide coverage 2-way communications – upload & download GPRS & SMS with automatic least-cost routin
Cell Based Location	If GPS is not available cellular technology is utilized to report approximate location
GPS Receiver:	Cold Start: <45 seconds TTFF (95%) Hot Start: <10 seconds TTFF (95%) <2.5-meter accuracy
ZigBee Wireless LAN:	Communicates with all GT Wireless Sensors Mesh networking available 868/915 MHz & 2.4 GHz ZigBee Wireless Tx power, max: 1000 mW (USA), 100 mW (Europe), 10 mW (Japan) Tx power, min: 1 mW
Storage	Stores up to 500 reports if cell is not available

Embedded Tracking Mode and Standard Tracking

bolt seal

Kratos can also be used in an embedded tracking mode where the device is placed inside the container, truck, or even inside the cargo itself. In this mode a "dummy bolt" is placed into the device simply to activate the unit. Because of the Kratos small size and high performance, it is well suited for tracking applications of this nature. Kratos can also be used as a standard tracking device when mounted on a truck, container, or any other asset through a variety of mounting methods. It is ideal for high performance monitoring, applications, sensor networks, and a variety of other uses.

Operates with other GlobalTrak Zigbee enabled devices such as the Remote Sensor Node and Hyperion strap seal and Hercules

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