

Hi-G-Tek

Hi-G-Tag



Wireless

The Hi-G-Tag is a wireless electronic sensing device that provides robust physical security as well as automatic processing and real-time monitoring of secured cargo both in transit and in storage.

The Hi-G-Tag uses Highly Intelligent RFID (Radio Frequency Identification) wireless technology and includes a transmitter/receiver unit, read/write capability, real-time clock, memory and patented sensing circuitry for sealing verification.

The physical protection provided by the Hi-G-Tag is equivalent to that of an alarm tag. Encrypted and embedded sensors prevent any attempt at detaching, bypassing, or tampering with the Hi-G-Tag. The system detects any such attempt, records the event, and sends an alert. At the core of every Hi-G-Tek device is the patented and trademarked "DataTag™" sensing system.

In low-frequency short-range mode, the Hi-G-Tag logs and communicates data through a handheld data terminal and can also be inspected and/or set by a small keyfob unit called the Micro Reader.

The Hi-G-Tag can store manifest information electronically in memory. The information can include vehicle ID, container and invoice numbers, cargo descriptions, quantities and destinations.

The high frequency long-range mode provides full two-way read/write data communication capabilities at a distance of 100+ meters. The Hi-G-Tag transmits the information in reply to an interrogation by the Hi-G-Tek DataReader- or by an event which is not authorized. Many Hi-G-Tek devices, such as Hi-G-Locks, Hi-G-Tags and Hi-G-Seals, can be monitored simultaneously by one DataReader.

This long-range capability makes the Hi-G-Tag ideal for protecting, tracking, sealing, and verifying of assets such as containers, fuel and rail tankers.

Successful monitoring can also include stationary objects such as ingress/egress portals, yard/gate management systems, refineries, fuel depots, and finally, pump and tank delivery systems at gas/petrol stations.



Features:

- Monitors items in transit and storage in real-time
- Eliminates undetected tampering with cargo items or assets
- Effectively and economically processes items in production planning and assets control & management ERP applications
- Stores relevant information regarding assets
- Improves security

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Technical Specifications:

Communications:

Full 2 way Duplex

Frequency Range:

- Low frequency: 125 KHz
- High frequency: 916.5MHz or 433.92MHz

Read Range:

- Low-frequency: 30cm
- High-frequency: 50m in open space

Physical Dimensions:

Size: 65 x 45 x 25mm

Weight: 80g

Housing:

Splash-proof plastic reinforced with fiberglass

Power Requirement:

Power Source: 3.6V internal Lithium battery

Environmental:

- Operating Temperature: -40°C to +70°C
- Storage Temperature: -40°C to +80°C
- Installation Environment: Outdoor
- Vibration and Shock: Complies with MIL-STD-810D for mobile equipment and SAE J1455

Software Features:

Memory

User Memory: 3K Bytes

Events Memory: 55 events

Life expectancy:

Service life: 4-5 years at 50 interrogations per day

Antenna Characteristics:

Beam Divergence: Omni-directional on non-metal wall, while installed horizontally and hemispherical on metal wall

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