**This RFID container security tag provides highly accurate, real-time data collection without human intervention.**

This RFID container security tag provides highly accurate, real-time data collection without human intervention in wireless applications such as identification, sensor logging, tracking and tracing. This RFID transponder transmits and receives data at distances over 140 meters (460 feet).It includes a hardwire interface for fast and secure data upload and has a database based memory of up to 128 kilobytes, as well as 32 kilobytes of memory for sensor logging.

This UHF RFID security tag features low power consumption, long communication range and high data transmission rates. It utilizes a door breach sensor as well as light, temperature, humidity and shock sensors. In addition, the tag operates effectively for over 5 years. The integrated speaker provides acoustic signaling during search, locating and alarms.
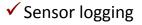
## Key Features

- ✓ 140-meters(460 ft) read/write range
- ✓ 128k byte user memory
- ✓ 32KB memory for sensors
- ✓ 433MHz operating frequency
- ✓ ISO/IEC18000-7 compatible
- ✓ Security sensors

- ✓ USB 2.0 Hardwire Interface
- ✓ Integrated speaker
- ✓ 5-year battery lifetime and more
- ✓ Replaceable battery
- ✓ Easy attachment to containers
- ✓ LED for sensor and battery status

## Applications

- ✓ Identification
- ✓ Tracking and tracing

- ✓ Sensor logging

## Technical Specifications

| Performance | |
| --- | --- |
| Read/Write range | up to 140 m (460 feet) in free air (line of sight) |
| **Electrical** | |
| Power source | 3.6V Lithium battery (replaceable) |
| Expected battery life | Typically 5 years and more, depending on usage |
| Battery monitoring | Yes |
| **Communication** | |
| Operating frequency | 433.92 MHz |
| Air protocol | ISO/IEC 18000-7 |
| Data rate | 27.778 Kbits/s |
| Modulation | FSK   50 kHz at 27.778 kHz data rate |
| Sensitivity | -95dBm |
| Transmit power | ≤ 0 dBm to comply with national regulations |
| **Hardware Communication** | |
| Standard | USB 2.0 |
| Connector | Mini-B |
| **Physical** | |
| Rear Case | 115 mm H x 140 mm W x 40 mm D |
| Front Case | 193 mm H x 90 mm W x 11 mm D |
| Mounting Clamp | 50 mm width for ISO Container (overall 105 mm) |
| Enclosure | PC/ABS with UV inhibitors, UL 94 V0 |
| Color | Black |
| Weight | 690g (24.34 oz), 715 g with battery (25.22 oz) |
| **Environmental** | |

| | |
|---|---|
| Operating Temperature | −30°C to +70°C (−22°F to +158°F) |
| Storage Temperature | −40°C to +70°C (−40°F to +158°F) |
| Humidity | 10% to 90% relative humidity at 30°C (+86°F) |
| Shock & Vibration | Multiple drops to concrete from 1 m (3 ft) <br> MIL-STD 810F |
| Enclosure rating | IP 65 |
| Data | |
| Data retention | >10 years without power |
| Write cycles | 100,000 writes to a transponder |
| Use memory size | 128kB |
| Memory for sensors | 32kB |
| Identification code | 32 bit fixed ID |
| Approvals | |
| Radio | FCC Part 15, EN 300220, RSS-210 |
| EMC & Immunity | EN 301489 |
| Safety | EN 60950 |
| Ordnance | HERO Listed |

## GAO Group

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