

This Transponder offers sensors for light intrusion, temperature, humidity as well as shock.

This RFID sensor tag provides highly accurate, real-time data collection without human intervention in wireless applications such as identification, sensor logging, tracking and tracing of cargo, vehicles, and other assets. It features flexible mounting, low power consumption, long communication range and high data transmission rates. It offers sensors for light intrusion, temperature, humidity as well as shock. The thresholds for the breach conditions are specified by the user. The tag can operate effectively for over 5 years. The integrated speaker provides acoustic signaling during search, locating and alarms.

This RFID transponder transmits and receives data at distances of up to 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.



Key Features

- ✓ 140-meters(460 ft) read/write range
- ✓ 128kB user memory
- ✓ 32kBmemory for sensors
- ✓ 433MHz operating frequency
- ✓ ISO/IEC18000-7 compatible
- ✓ USB 2.0 Hardwire Interface
- ✓ Speaker
- ✓ 5-year battery lifetime
- ✓ Replaceable battery
- ✓ Flexible mounting
- ✓ Security sensors
- ✓ LED for sensor and battery status

Applications

- ✓ Identification
- ✓ Tracking and tracing of cargo, vehicles,
and other assets
- ✓ Sensor logging

Technical Specifications

Performance

Read/Write range	up to 140 m (460 feet) in free air (line of sight)
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

Electrical

Power source	3.6V Lithium battery (replaceable)
Expected battery life	Typically 5 years and more, depending on usage
Battery monitoring	Yes

Hardwire Communication

Standard	USB 2.0
Connector	Mini-B

Physical

Dimensions	147 mm L x 55 mm W x 39 mm H (5.79 in. L x 2.17 in. W x 1.53 in. H)
Dimensions w/ mount:	156 mm L x 55 mm W x 45 mm H (6.25 in. L x 2.17 in. W x 1.75 in. H)
Enclosure	PC/ABS with UV inhibitors, UL 94 V0
Color	Black
Weight	100 g (3.52 ounces), (125 g with battery)
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) MIL-STD 810F
Enclosure rating	IP 65
Data	
Data retention	>10 years without power
Write cycles	100,000 writes to a transponder
User memory size	128kB
Memory for sensors	32 kB
Identification code	32 bit fixed ID
Approvals	
Radio	FCC Part 15, EN 300220, RSS-210
EMC & Immunity	EN 301489
Safety	EN 60950
Ordinance	HERO Listed
Accessories	
Magnetic Mount	PN 388474
Mounting Bracket	PN 389879



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