

# Tag

Product Code: L-TG800-IH

## Description: Tag Industrial Housed Asset

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An internal battery powers the Wavetrend series of Active Asset Tags. The Industrial Housed Asset Tag will, for the duration of its life, transmit a Radio Frequency (RF) signal at a pre-set time-interval. The Tag life is estimated at 5 years at a transmission time interval of approximately 1.5 seconds. The life span of the Tag ends when the battery life is exhausted. Battery status can be inferred by interrogating the internal Tag Age Counter Value.

The transmitted Tag data includes Customer Site Code (CSC), Tag ID, Tag Age Counter Value, Movement Alarm and Tamper Alarm status.

For protection against adverse environmental conditions, Wavetrend Asset Tags are encapsulated in a moulded plastic case, which is screw sealed.

The L-TG800-IH Tag is generally used for outdoor Asset tagging applications. The L-TG800-IH is ideally suited for **operating on metallic surfaces** (or plastics containing a high metal content). The mounting and affixing of a Tag depends on the type of application. The standard method is by VHB type double-sided adhesive tape.

The Tag can be configured to accommodate Wiegand interfacing.



## Features

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- Configurable settings, including Site / Vendor ID, Tag ID, Transmission Repetition Interval and Alarm functions (these are programmed at order placement stage).
- Low power consumption. Tag life is estimated at 5 years when transmitting at a 1.5-second interval.
- A Collision avoidance algorithm is used to dispose the transmissions around the mean repetition interval.

## Specifications

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### Environmental

Operational temperature	- 10° C to + 60° C
Storage temperature	- 20° C to + 70° C
Humidity	100%
Chemical Resistance	Resistant to most fuels, oils, grease and coolants
Cleaning	Clean tag case with Carbon tetrachloride <b>NOT</b> Alcohol

### Physical

Size	123 mm x 80 mm x 22 mm
Weight	< 60 grams
Colour	Grey
Type of material	20 to 30% Glass filled Polyamide, UV stabilised
Sealing	Conformance to IP 67 rating

### Bonding Tape

Tape Type	Closed cell acrylic foam (VHB) UV resistant
Colour	White
Thickness	1.1 mm ± 10 %
Application temperature	15 to 30 deg C
Peel adhesion to stainless steel	440 n / 100 mm

### RF Specifications

TX Frequency	433.92 Mhz
Typical Transmission Range	0 – 50 Meters dependant on antenna configuration
Field strength	< 1600 µV/m
Modulation	ASK
Stability	Saw Stabilised

### Electrical Specifications

Power	Internally powered Lithium Battery
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## Certification

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

The following standards applied in accordance with Article 5 of the directive, 1999/5/EC:

EN 300 220-1 V1.2.1 (1997-11)

ETS 300 683 (1997-03).

### Summary of tests

Effective radiated power	25MHz - 4GHz
Range of modulation bandwidth for wideband equipment	
Frequency stability under low voltage conditions	
EN55022	Radiated emissions 30MHz – 1GHz
EN61000-4-3	Radiated immunity 80MHz – 1GHz, excl 433.92 MHz $\pm$ 20MHz
EN61000-4-2	Electrostatic discharge

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