

Active Tags

L-TG800 (Wavetrend Asset Tag)

Description:

The Link-it™ series of Active Asset Tags are powered by an internal battery. The 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 15 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, Link-it™ Asset Tags are encapsulated in a moulded plastic case, which is ultrasonically sealed during the manufacturing process.

The L-TG800 Tag generally used for Asset tagging applications. The L-TG800 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 (Product Code L-TA600).

The Tag can be configured to accommodate Wiegand interfacing.

Features:

- 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 15-second interval.
- Randomised time-slots (Standard percentage deviation) minimise continuous collisions

DOCUMENT NO	PRODUCT NO	WAVETREND	DATE	PAGE
EAB-00400-00-PI	L-TG800	WAVETREND ASSET TAG	2002/10/09	1 OF 2

Specification:

Environmental

Operational temperature	-10° C to +60° C
Storage temperature	-20° C to +70° C
Humidity	5% to 90% (non condensing)

Physical

Size	85mm x 70mm x 9mm
Weight	< 25 grams
Colour	Grey (Clariant 04-600 2%)
Type of material	PVC (ultrasonically sealed) IP 65

RF Specifications

T _x Frequency	433.92Mhz
ERP	< 300µW (72 dB µV)
Typical Transmission Range	8 Meters (24 feet)
Power Output	< -14 dBm, 72 db µV, 4300 µV/m, 38µW
Modulation	OOK
Bandwidth	< 1 MHz
Stability	Saw Stabilised

Electrical Specifications

Power	Internally powered Lithium Battery
-------	------------------------------------

Certification:

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 433.92MHz±20MHz
EN61000-4-2	Electrostatic discharge

DOCUMENT NO	PRODUCT NO	WAVETREND	DATE	PAGE
EAB-00400-00-PI	L-TG800	WAVETREND ASSET TAG	2002/10/09	2 OF 2