

Product Data Sheet

Link-it Active Tag

DESCRIPTION:

An internal battery powers the Link-it™ series of active tags. The tag, will for the duration of its life, transmit a Radio Frequency signal at a pre-set time-interval. The tag life is estimated at 5 years and transmits at a time interval of approximately 1.4 seconds, which is used for most applications. The tag is simply replaced when the battery is exhausted. Battery status can be inferred from the tag life counter.



Tags transmit a string of characters at regular intervals ranging from 6 times per second down to 1 in every 3 seconds. This string includes the tag ID, the tag life counter, various alarm conditions and counters, and several controls that are used by the tagging system.

For protection against adverse environmental conditions, Link-it™ tags are encapsulated in a moulded plastic case, which is hermetically sealed during the manufacturing process.

Two different enclosure options are available and are selected according to the user application. The Slimline tag is mostly used in personnel and people tagging applications, although it may be used in other applications as well. Mounting any tag depends on the type of application. The standard method is by adhesive, but various brackets are available for more rigid mounting requirements.

Several unique features of the tag can be programmed in the field after manufacture, using the Link-it™ programming unit, **L-PG100**.

- L-TG100 (Standard Tag)
- L-TG200 (Tilt Sensor)
- L-TG500 (Slimline tag)



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FEATURES:

- Externally programmable configuration settings, including serial number, transmission repetition rate, alarm functions, and fuse status.
- Low power consumption. Battery life is estimated at 5 years when transmitting approximately once per second.
- Encrypted transmission.
- An external optional Tag Antenna increases the transmit range of the tag.

APPLICATIONS:

- Link-it™ tags can be mounted on a wide variety of objects. Where permanent mounting is not required, the tags may simply be worn or carried (typically if used as a person identifier).

SPECIFICATION:

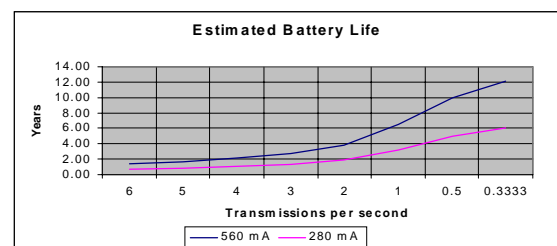
Environmental

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

Physical

Size	61mm x 30mm x 9mm (Normal
Enclosure)	86mm x 54mm x 5mm (Slimline
Enclosure)	
Weight	15gms (excluding antenna)
Colour	Light Grey (Clariant 04-312 2%) Dark Grey (Clariant 04-600 2%)
Type of material	PVC (ultrasonically sealed) IP 65 rating

An internal Lithium battery powers the Link-it™ tag series. The life expectancy is determined by the transmission interval and is shown in the graph opposite. Both 560mA and 280mA batteries are available. Battery life may be affected by environmental conditions.



Tx Frequency	Free Band (Dependant on Country)	ERP	300µW
Tx Duration	<6mS	Tx Repetition	0.03, 0.07, 0.16, 0.35, 0.7, 1.4 and 2.7 seconds
Range Options	3-5m (Standard Tag),	5-8m (Standard Tag + external antenna, Slimline)	