



- Beacon tag transmitting a unique ID & data at pre-set intervals
- Ultra low power consumption provides exceptional battery life
- Ultra long-range transmitter
- Low battery warning
- Anti-tamper alert option
- Temperature measurement accurate to 2 DP

The TGATemp Active Tag uses two separate schemes to transmit its data. Scheme 1 is the standard L series packet transmission containing Site Code, Tag Id and battery Life. Scheme 2 includes Site Code, Tag Id and Temperature. The tag can be set to beacon rates of either 15 or 30 seconds, alternating between Scheme 1 and 2 at selected beacon rate. I.e. at a beacon rate of 15 seconds the tag will transmit its temperature packet every 30 seconds.

KEY FEATURES	BUSINESS BENEFITS
<b>Configurable settings include:</b>  Site / Vendor ID  Tag ID  Various transmission repetition intervals  Tamper Alarm  Temperature reporting	A unique code that can be allocated by Wavetrend to each customer on request. Readers can be set to ignore tags with incorrect site codes.  4.2 billion tag ID's are available per site code.  The Age Counter allows for advance notification of the end of battery life and for the unique identification for each transmission made by the tag. Beacon rates are as follows: 15, 30.  Provides instant notification of unauthorized attempts to remove a tag from an asset.  Accurate to 0.1 Degrees Celsius
Collision avoidance algorithm	Reduces loss of data caused by simultaneous transmissions from multiple tags.
Ultra low power consumption	Lifespan of 3 years when transmitting at the standard or greater interval.
Sealed to IP67 standards	Fully sealed case.

Best Usage Guide



Personnel



Track Assets



Use on Metal



Indoor Use



Outdoor Use



IP687Waterproof

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## Typical Applications

The Temperature tag can be used for measuring the temperature in an indoor or outdoor environment.

The TGATEMP has a unique omni directional antenna design allowing the tag to be read from all directions and to be deployed equally well on metallic and non metallic assets.

Optimum read range is achieved on metal with a 10% reduction on Non metals.

The tag is sealed to IP67 providing the highest level of water ingress protection.

The TGATEMP is equipped with an anti tamper switch which when used in conjunction with the Wavetrend Anti Tamper kits will send an alarm on removal from an Asset.

### Model Range

The tag can be ordered using the part number listed below:

<b>L-Series</b>
TGATEMP

## Air Interface Protocols

L-Series' refers to a proprietary communication protocol used between Wavetrend® tags and readers.

L-Series tags provide ultra long read range and are ideal for use in low tag density (< 30 tags per reader) operations such as personnel tracking, small asset management applications and access control systems.

**Ordering & Further Information**  
 For more information on purchasing the Active TGATEMP please email Wavetrend's Sales team:  
[sales@wavetrend.net](mailto:sales@wavetrend.net)  
 For more information on Wavetrend® visit our website.

## Specifications

<b>Environmental</b>	Operating temperature : -40°C to +80°C Storage temperature : -40°C to +80°C Humidity : 5% to 90% (non-condensing)
<b>Physical</b>	Size : 68 x 36 x 16mm Weight : 25g Colour : Red Material : Nylon
<b>Radio Frequency</b>	Transmit Frequency : 433.92 MHz Power Output (avg.) : 77 dBµV/m @ 3m Range : 1 to 100+ meters (actual range is determined by the choice of reader & antenna used to detect the tag and the environment it is used in)
<b>Electrical</b>	Power : Internally powered by lithium battery
<b>accessories</b>	All sold in packs of 10 TATGA : Tag attachment kit TATGA-AT : Tamper alerting tag attachment kit

*\* (from front page) Battery life calculations assume operation at room temperature with the default status transmission interval of 1.5 seconds, without the anti-tamper circuit armed and without a motion sensor fitted.*



**IMPORTANT NOTICE:** Wavetrend ACTIV tags do not comply with the FCC Part 15 rules or hold IC approval, so are not available for sale into the United States of America or Canada.

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