



- 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
- 3 axial accelerometer with X,Y,Z and alarm reporting

The TGAIKinetic Tag includes a 3 Axial accelerometer with 10 preset able levels of sensitivity. It can be configured to provide a motion alarm on movement or to transmit its X,Y,Z acceleration on alarm. An internal battery powers the tag and Wavetrend's patented ultra low power use design ensures longer battery life at higher rates of transmission than any other brand of active RFID tag. Various preset transmission intervals are available.

KEY FEATURES	BUSINESS BENEFITS
Tag can be configured to hold standard 26-bit Wiegand numbering	Allows tag to be used with existing access control systems separately or together with the active RFID system.
Configurable settings include: <ul style="list-style-type: none"> ▪ Site / Vendor ID ▪ Tag ID ▪ Various transmission repetition intervals (default 10s) ▪ Tamper Alarm ▪ XYX Reporting 	<ul style="list-style-type: none"> ▪ 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: 0.4, 0.8, 1.5, 15, 30. ▪ Provides instant notification of unauthorized attempts to remove a tag from an asset. ▪ Reports XYZ values on alarm
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.

Best Usage Guide



Personnel



Indoor Use



Track Assets



Use on Metal

Typical Applications

The TGAIKinetic Tag is ideally suited to protecting assets in high vibration environments in which conventional motion sensor based tags struggle.

The X,Y,Z data can be used to determine both the orientation and also the direction in which the tag is moving. A typical application for the TGAIKinetic is in remote building monitoring determining if doors and windows are open. It can also be used in man down and medical monitoring scenarios to determine the orientation of a worker or patient.

The TGAIKinetic Tag has a unique omnidirectional 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.

Model Range

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

L-Series	
TGAIKinetic	: Standard tag

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.

* (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.

Specifications

Environmental	
Operating temperature	: -30°C to +60°C
Storage temperature	: -40°C to +70°C
Humidity	: 5% to 90% (non-condensing)
Physical	
Size	: 39 x 33 x 13mm
Weight	: 22g
Colour	: Black
Material	: Nylon
Radio Frequency	
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)
Electrical	
Power	: Internally powered by lithium battery
Accessories	
TAGAI	: All sold in packs of 10
TGAI-AT	: Tag attachment kit : Tamper alerting tag attachment kit

Ordering & Further Information

For more information on purchasing the Activ TGAIKinetic tag please email Wavetrend's Sales team:

sales@wavetrend.net

For more information on Wavetrend® visit our website.

IP Information

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