

ACTIVE RFID



- Beacon tag transmitting a unique ID & data at pre-set intervals
- Ultra long-range transmitter
- Anti-tamper alert option
- Motion sensor option
- IP64 Housing
- Compact size

The TGM Activ Tag is an extremely small active tag that continuously transmits a unique ID number, which can be detected by Wavetrend® reader. 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 ▪ Tag Age Counter ▪ Various transmission repetition intervals ▪ Movement Alert ▪ Tamper Alarm 	<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. ▪ Different status transmission intervals allow tags to be used in diverse applications while offering the best battery life spans in the market. ▪ Provides instant notification of an attempt to move a tag through rapid alert transmissions for 5 seconds. ▪ Provides instant notification of unauthorized attempts to remove a tag from an asset.
Collision avoidance algorithm	Reduces loss of data caused by simultaneous transmissions from multiple tags.
Ultra low power consumption	Typical lifespan of 3 years at 6.0 second interval
Sealed to IP64 standards	Splash Proof

Best Usage Guide



Personnel



Track Assets



Use on Metal



Indoor Use



Outdoor Use

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Typical Applications

The TGMS Micro Tag 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.

It should be noted that due to its physical size the micro tag has a smaller battery than other tags in the range, for monitoring applications it is recommended to use the TGMS set at 30 seconds. This allows the user to extend the life of the tag whilst still detecting any motion events.

Model Range

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

L-Series
TGMS

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 Activ TGMS tag please email Wavetrend's Sales team:

sales@wavetrend.net

For more information on Wavetrend® visit our website.

Specifications

Environmental	
Operating temperature	: -30°C to +85°C
Storage temperature	: -40°C to +90°C
Humidity	: 5% to 90% (non-condensing)
Physical	
Size	: 33 x 25 x 7 mm
Weight	: 7g
Colour	: Grey
Material	: ABS
Radio Frequency	
Transmit Frequency	: 433.92 MHz
Range	: 1 to 50 + 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	
TA-TGM	: Tag attachment kit
TA-TGM-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.



IP Information

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