WAVETREND®
RFID | ACTIVATING YOUR BUSINESS

ACTIV

ACTIVE RFID

- 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
- Motion sensor option
- Option to support multiple Passive RFID technologies including HID and UHF GEN2

The TGP Activ Personnel Tag is an 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.

The TGP tag is available in the L-Series format.

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: ▪ Site / Vendor ID ▪ Tag ID ▪ Various transmission repetition intervals (default 10s) ▪ Movement Alert ▪ Tamper Alarm ▪ Panic Button	 ▪ 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 seconds. ▪ 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	Lifespan of 3 years when transmitting at the standard or greater interval.

Best Usage Guide

Personnel

Indoor Use

Windshield Use

Use on Metal

Track Assets

Outdoor Use

Typical Applications

The TGP Personnel Tag is generally used for security & safety applications requiring people to carry a tag. The housing incorporates a convenient clip-slot for ease of wearing. However, it may be used in other applications such as asset monitoring. The mounting and affixing method for the tag depends on the type of application it is used in. The tag must not be fixed directly onto metal surfaces.

The TGP-MS tag is equipped with a motion sensor to detect or monitor the movement of tagged assets or personnel – this is typically used to provide increased asset protection and security or provide constant monitoring of personnel movement such as in 'man down' applications.

The TGP-G2 tag is a 'dual technology' tag that incorporates a customer supplied passive RFID PET e.g. the HID *MicroProx*™ chip, allowing the tag to function on other passive RFID systems such as a door access control system.

Model Range

The tags can be ordered using the part numbers listed below:

L-Series	
TGP	: Standard tag
TGP-MS	: Optional Motion Sensor
TGP-G2	: Optional UHF Gen2

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.

Specifications

Environmental	
Operating temperature	: -30°C to +60°C
Storage temperature	: -40°C to +70°C
Humidity	: 5% to 90% (non-condensing)

Physical	
Size	: 86 x 54 x 5 mm
Weight	: 24g
Colour	: Grey
Material	: ABS (ultrasonically sealed) IP65

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	
	(All sold in packs of 10)
TA501	: Tag attachment kit
TA501-AT	: Tamper alerting tag attachment kit

Ordering & Further Information

For more information on purchasing the Activ TGP Tag please email Wavetrend's Sales team:

sales@wavetrend.net

For more information on Wavetrend® visit our website.

Certifications CE RoHS

* (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.