



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
- Passive RFID technologies including HID and UHF GEN2

The TGP-A ActivDuo 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.

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 15s) ▪ Adjustable 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. Beacon rates are as follows: 15, 30. ▪ The sensitivity of the tags motion sensor can be set on a Scale of 1-10 allowing a scale from the most sensitive movement to prolonged shocks. ▪ 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.
Sealed to IP64 standards	Splash proof
Housing incorporates dip-slot	For convenient wearing and flexibility of use.

Best Usage Guide



Personnel



Indoor Use



Windshield Use



Track Assets



Outdoor Use

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Typical Applications

The TGP-A Personnel Tag is generally used for security & safety applications requiring people to carry a tag. The housing incorporates a clip-slot for convenient wearing for that purpose. 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-A-DT tag is a 'dual technology' tag that incorporates a customer supplied passive RFID PET e.g. the HID *MicroProx*TM 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-A	: Standard tag
TGP-A-G2	: With UHF Gen2 Inlay
TGP-A-DT	: With HID Inlay

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.

Multiple classes, allowing the user to select shorter messaging packets for high speed or high density application

Specifications

Environmental	Operating temperature : -30°C to +60°C Storage temperature : -40°C to +70°C Humidity : 5% to 90% (non-condensing)
Physical	Size : 85 x 54 x 6.5 mm Weight : 24 grams Colour : Material :ABS (ultrasonically sealed) IP64
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

User definable data fields, allowing up to 200 characters of user data to be stored on the tag

Smart telemetry tag, that alert and log the user if out of bounds conditions in either temperature or humidity occur

Greater selection of tag beacon rates offering greater tag of the reduction in spurious transmissions.

L-Series+ tags can only be read by L-Series+ readers. L-Series readers can read both L-Series and L-Series+ tags.

**(from front page) Battery life calculations assume operation at room temperature with the default status transmission interval of 15 seconds, without the anti-tamper circuit armed and without a motion sensor fitted*

Ordering & Further Information

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

sales@wavetrend.net

For more information on Wavetrend® visit our website.

FCC Statement of Conformity

Wavetrend , TGP-A Active Duo ,
FCC ID: 06XTGP-A

This device complies with Part 15 of the FCC rules subject to the following three conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept all interference received, including interference that may cause undesired operation.
- 3) This device is for commercial use only and intended for use in a confined area with an appropriate system receiver

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Certifications



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