

ACTIVE RFID

Personnel Tag Hazard TGPHZ



- ATEX Zone 0, ICEPEX and Intrinsically Safe Certified
- Beacon tag transmitting a unique ID & data ID & data at pre-set intervals
- Anti-tamper alert option
- Motion sensor option
- Option to support multiple Passive RFID technologies including HID and UHF GEN2

The TGPHZ Activ Personnel Hazard 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 10s) ▪ Movement Alert ▪ Tamper Alarm ▪ Panic Button 	<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. ▪ 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



Use on Metal



Mining Certified



Oil & Gas Certified



Outdoor Use

WWW.WAVETREND.NET

© 2012 Wavetrend Europe Limited | All Rights Reserved | All specifications are subject to change without notice.

ACTIVE RFID

Personnel Tag Hazard TGPHZ

Typical Applications

The TGPHZ Personnel Tag is generally used for security & safety applications requiring people to carry a tag. The housing incorporates a convenient clip-slot and may also 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.

Model Range

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

L-Series	
TGPHZ	: Personnel Hazard 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.

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 (L-Series) and Black (W-Series) 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	: Tag attachment kit : Tamper alerting tag attachment kit (All sold in packs of 10)

Ordering & Further Information
 For more information on purchasing the Activ TGPHZ Hazard tag please email Wavetrend's Sales team:
sales@wavetrend.net
 For more information on Wavetrend® visit our website.

** (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

Wavetrend and the Wavetrend logo are either registered trademarks or trademarks of Wavetrend Technologies Limited in the United States and/or other countries. All other trademarks are the property of their respective owners. The product(s) described in this document are protected by various patents held by Wavetrend. Refer to the URL www.wavetrend.net/IPR for information on all patents and trademarks held, and for Wavetrend's Policy on Intellectual Property Rights.