

# ACTIVE RFID



- ATEX Zone 0, IECEx and Intrinsically Safe Certified
- Long Battery Life
- Ultra Long-Range Transmitter
- Optional integrated Passive Technology including HID & UHF GEN2
- Anti-Tamper alert option
- Motion Sensor option

The TGPZH Activ Personnel Tag is an essential component of a Worker Safety and Efficiency Solution where real-time visibility of Personnel is required, critical in hazardous environments. The tag continuously transmits a unique ID number which is detected by a Wavetrend® reader which allows the location of staff to be confirmed on a real-time basis. 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.

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.
<b>Configurable settings include:</b> <ul style="list-style-type: none"> <li>▪ Site/vendor ID</li> <li>▪ Tag ID</li> <li>▪ Tag Age Counter</li> <li>▪ Various transmission repetition intervals</li> <li>▪ Movement Alert</li> <li>▪ Tamper Alarm</li> </ul>	<ul style="list-style-type: none"> <li>▪ 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.</li> <li>▪ 4.2 billion tag ID's are available per site code.</li> <li>▪ 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.</li> <li>▪ Different status transmission intervals allow tags to be used in diverse applications while offering the best battery life spans in the market.</li> <li>▪ Provides instant notification of an attempt to move a tag through rapid alert transmissions for 5 seconds.</li> <li>▪ Provides instant notification of unauthorized attempts to remove a tag from an asset.</li> </ul>
Collision avoidance algorithm	Reduces loss of data caused by simultaneous transmissions from multiple tags.
Ultra low power consumption	Typical lifespan of 3 years when transmitting at the standard or greater interval*
Sealed to IP65 standards	Splashproof

### Best Usage Guide



Personnel



Indoor Use



Oil & Gas Certified



Optional Extended Temperature



Mining Certified



Use on Metal

## Typical Applications

The TGPHZ Hazard Personnel Tag is ideal for security and safety applications which require real-time visibility of staff throughout a facility, particularly key in hazardous environments.

Worker Safety Solutions can address a multitude of Health and Safety and regulatory compliance requirements such as emergency evacuation monitoring, dynamic mustering, distress alerting, access control, and proximity alerting.

Wavetrend TGPHZ Hazard Personnel Tags are read by Wavetrend Readers allowing the user to monitor staff location and movement throughout a facility displaying their real-time location on a site map. Location and status information is populated to enterprise applications and if required meaningful events can be triggered, essential in the event of an emergency.

The tag has a unique omni-directional antenna design allowing the tag to be read from all directions

The Wavetrend Personnel Tag has been used extensively within the manufacturing, mining, construction and logistics sectors.

Wavetrend office locations: UK | US  
For technology or sales enquiries please email : [sales@wavetrend.net](mailto:sales@wavetrend.net)

*\* (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. Please refer to the ACTIVDUO range for FCC and IC Certified Wavetrend tags

<b>Environmental</b>	
Operating temperature	: -30°C to +60°C
Storage temperature	: -40°C to +70°C
Humidity	: 5% to 90% (non-condensing)
<b>Physical</b>	
Size (mm)	: 86 x 54 x 5
Weight (g)	: 24
Colour	: Yellow
Material	: ABS (ultrasonically sealed) IP64
<b>Radio Frequency</b>	
Transmit Frequency	: 433.92 MHz
Range	: Up to 200 meters (actual range is determined by the choice of reader & antenna used to detect the tag and the environment it is used in)
<b>Electrical</b>	
Power	: Internally powered by lithium battery
<b>Accessories</b>	
TA-TGP	: Tag attachment kit
TA-TGP-AT	: Tamper alerting tag attachment kit

## Certifications



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