



- 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
- Temperature and Humidity measurement accurate to 2 DP

The TGPTelemetry Active Tag uses two separate schemes to transmit its data. Scheme 1 is the standard L series packet transmission containing Site Code, Tag Id and battery Life. Scheme 2 includes Site Code, Tag Id and Temperature and humidity data. The tag can be set to beacon rates of either 15 or 30 seconds, alternating between Scheme 1 and 2 at selected beacon rate. I.e. at a beacon rate of 15 seconds the tag will transmit its temperature packet every 30 seconds.

KEY FEATURES	BUSINESS BENEFITS
Configurable settings include: Site / Vendor ID Tag ID Various transmission repetition intervals Tamper Alarm Temperature reporting Humidity Reporting	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. Provides instant notification of unauthorized attempts to remove a tag from an asset. Accurate to 0.1 Degrees Celsius Accurate to 0.1 %RH
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 IP50 standards	Fully sealed case with exposed Humidity sensor

Best Usage Guide



Personnel



Indoor Use



Windshield Use



Use on Metal



Track Assets



Outdoor Use



Typical Applications

The Telemetry tag can be used for measuring the temperature and humidity in an indoor environment. When deployed outdoors it is critical to prevent water saturating the sensor as this will reduce the efficiency of the device. The tag should not be affixed directly to metal.

The TGPTelemetry is equipped with an anti tamper switch which when used in conjunction with the Wavetrend Anti Tamper kits will send an alarm on removal from an Asset.

Model Range

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

L-Series
TGPTelemetry

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 Active TGPTelemetry please email Wavetrend's Sales team:
sales@wavetrend.net
 For more information on Wavetrend® visit our website.

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 9 mm Weight : 24 grams Colour : Grey Material : ABS (ultrasonically sealed) IP50
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

** (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.



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