

## Product Data Sheet



### **Active Asset Tag** **L-TG200 (Wavetrend Asset Tag)** **L-TG201 (Wavetrend Asset Tag with Movement Sensor)**

The Wavetrend series of Active Tags are powered by an internal battery. The Tag will, for the duration of its life, transmit a radio frequency (RF) signal at a preset time interval. The Tag life is estimated at 5 years at a transmission time interval of approximately 1.5 seconds. The lifespan of the Tag ends when the battery life is exhausted. Battery status can be inferred by interrogating the internal Tag Age Counter Value.

The transmitted Tag data includes Customer Site Code (CSC), Tag ID, Tag Age Counter Value, Movement Alarm and Tamper Alarm status.

For protection against adverse environmental conditions, Wavetrend Active Tags are encapsulated in a moulded plastic case, which is ultrasonically sealed during the manufacturing process. The Wavetrend Active Asset Tag is generally used for asset tagging. The mounting and affixing of a Tag depends on the type of application. The standard method is by VHB type double-sided adhesive tape.

The Tag can be configured to accommodate Wiegand interfacing.

#### **Features:**

- Configurable settings, including Site / Vendor ID, Tag ID, Transmission Repetition Interval and Alarm functions (these are programmed at order placement stage)
- Low power consumption. Tag life is estimated at 5 years when transmitting at a 1.5-second interval.
- A random dispersion around the transmit interval mean is used to minimise the inter-tag collisions
- External antennae

#### **Applications:**

Wavetrend Active Tags can be mounted on a variety of items. Where permanent fixing is required, VHB double-sided tape is used.



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### Specification:

#### Environmental

Operating temperature	-10° C to +60° C
Storage temperature	-20° C to +70° C
Humidity	5% to 90% (non condensing)

#### Physical

Size	61mm x 30mm x 9mm)
Weight	15 grams (excluding antenna)
Colour	Grey (Clariant 04-600 2%)
Type of material	PVC (ultrasonically sealed) IP 65

#### RF Specifications

Tx frequency	433.92Mhz
Power output	-14 dBm, 72 db $\mu$ V, 4300 $\mu$ V/m, 38 $\mu$ W
Modulation	OOK, ASK
Bandwidth	$\pm$ 1.7MHz

#### Electrical Specifications

Power	Internally powered lithium battery
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#### Range Options

Wavetrend Active Asset Tag (without external antenna)	Approximately 2.5 meters
Wavetrend Active Asset Tag (with external antenna)	Approximately 6 meters