

# All Weather Asset Tracking Tag

Installation Guide - Part Numbers: 5-ETD00433, 5-ETD00433-2

**Elpas**

**Active RFID Visibility Solutions**

## Introduction

The Elpas All Weather Asset Tracking Tag from Visonic Technologies is an active extended-range, all weather Radio Frequency (RFID) device. The tag is designed for the real-time monitoring of metal or wooden shipping containers and cable drums in large indoor/outdoor storage and transportation facilities.

The tag's onboard transmitter emits continuously low power, beacon type radio frequency (RF) messages that identifies the exact real-time location of the asset with unparalleled reliability and precision. When attached to the container or drum; the tag also transmits alert notifications for keeping security personnel informed of deliberate and/or unintentional tampering.



The tag also features an onboard; 2-axis, power-switching; miniature accelerometer for optimizing alerting reliability and performance in severe environmental weather conditions such as heavy rain and hail.

Designed for harsh indoor/outdoor environments, the tag's solid state electronics is housed in an epoxy potted, IP67 rated, weatherproof thermoplastic casing. The design ensures years of maintenance free deployments and consistent UHF (433.92MHz) transmissions up to 100 meters/330 feet in any direction.

An aluminum drilling template may be ordered separately, which contains four 2.6mm/0.1in diameter holes for determining the correct locations of the mounting screws that will be used to attach the tag and tamper plate to the container or drum.

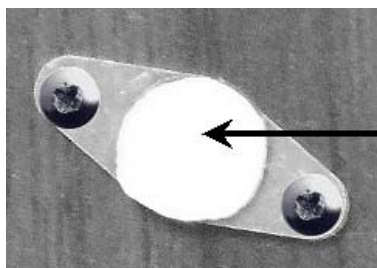
**NOTE:** One tamper plate, two 2.9mm/0.11inch x 13 self-drilling screws, two 3.9mm/0.15inch x 25 self-drilling screws, two M4 flat washers and two M4 helical spring lock washers are included with each tag.



**CAUTION:** It is important that you read, understand, and follow the instructions in this document. If you have questions, call your local VT support representative.

## Mounting Procedure

1. Place the drilling template on the metal container or drum where the asset tag is to be surface mounted.
2. Drill four 2.6mm/0.1in diameter holes into the container through the holes of the drilling template.
3. Place the tamper plate onto the asset ensuring that the white reflective disc is facing away from the asset.



White  
Reflective  
Disk

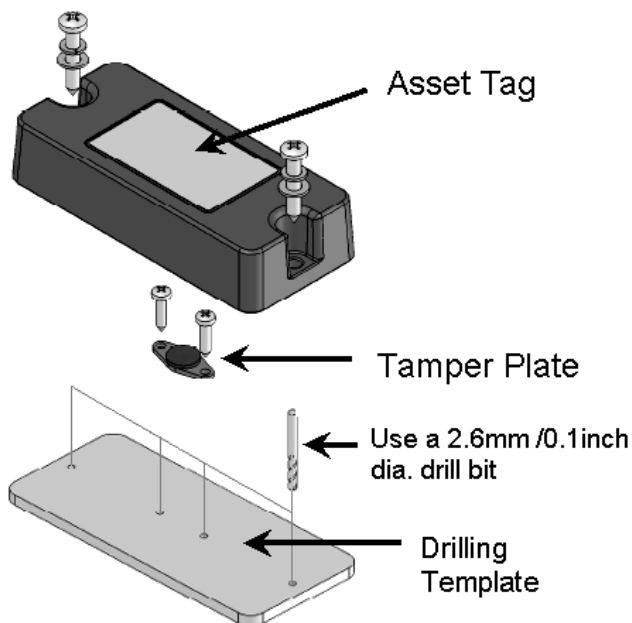
4. Screw the tamper plate onto the asset using the two supplied 2.9mm/0.11inch x 13 self-drilling screws.
5. Screw the tag onto the asset using the supplied 3.9mm/0.15inch x 25 self-drilling screws with the M4 flat washers and the M4 helical spring lock washers. Ensure that the white reflective disk of the tamper plates seats snugly into the bottom of the tag.

## Technical Specifications

Electrical	
Technology	RF (433.92MHz)
RF Range	100m/330ft in open areas (360° coverage)
Transmission Rates	RF (motion/stationary): Every 4 sec/30 sec
Tamper Event Transmission Rate	4 RF transmissions (each transmission @ 2ms in duration), 400 ms apart
Power Source	CR2 Lithium battery (1AmpHr approx)
Battery Life	5 years approximately
Tag ID	Unique factory programmed
Remote Management	EIRIS 4.6 or higher enterprise software
General	
Construction	Light-gray polymer plastic
Dimensions (H x W x D)	10.0 x 4.5 x 2.0cm (3.9 x 1.8 x 0.78 inches)
Weight	100 grams (3.5 ounces)
Operational Temp.	-30°C to 70°C (-22°F to 158°F)
Storage Temp.	-40°C to 80°C (-40°F to 176°F)
Humidity	100% condensing
Mechanical Tamper	Passive, omni-directional tilt & vibration sensor
Accelerometer	Capacitive micro-machined, dual-axis, high-sensitivity (800mV/g @ 1.5g)
Housing	IP67 water rated enclosure
Standards	FCC and EC approvals pending
Warranty	One year limited warranty

## Ordering Information

Part #	Description
5-ETD00433	All Weather Asset Tracking Tag, WP, RF, 433MHz, 15/16
5-ETD00433-2	All Weather Asset Tracking Tag, WP, RF-Basic, 433MHz
5-ETD90001	Reflective Tamper Plate (5 pcs)
5-ETD90002	Drilling Template (3 pcs)



### Product Warranty

Visonic Technologies Ltd. (VT or the Company), and its affiliates, warrants its products (hereinafter referred to as "the Product") to be free of defects in materials and workmanship under normal operating conditions and use for a period of one year from the date of shipment by VT. The Company's obligations shall be limited within the warranty period, at its option, to repair or to replace the defective Product or any defective component or part thereof. To exercise this warranty, the product must be returned to the manufacturer freight prepaid and insured.

This warranty does not apply to repairs or replacement caused by improper installation, Product misuse, failure to follow installation or operating instructions, alteration, abuse, accident, tampering, repair by anyone other than VT, external causes, and failure to perform required preventive maintenance. This warranty also does not apply to any products, accessories, or attachments used in conjunction with the Product, including batteries, which shall be covered solely by their own warranties, if any. VT shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, resulting from a malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Product.

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The purchaser and user understand that this Product may be compromised or circumvented by intentional acts; that the Product will not in all cases prevent death, personal injury, property damage, or other loss resulting from burglary, robbery, fire or other causes; and that the Product will not in all cases provide adequate warning or protection. The purchaser and user also understand that a properly installed and maintained alarm may reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such events will not occur or that there will be no death, personal injury, property damage, or other loss as a result of such events.

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The purchaser or user should follow the Product installation and operation instructions and test the Product and the entire system at least once each week. For various reasons, including but not limited to changes in environmental conditions, electric, electronic, or electromagnetic disruptions, and tampering, the Product may not perform as expected. The purchaser and user are advised to take all necessary precautions for the protection and safety of persons and property.

This statement provides certain legal rights. Other rights may vary by state or country. Under certain circumstances, some states or countries may not allow exclusion or limitation of incidental or consequential damages or implied warranties, so the above exclusions may not apply under those circumstances and in those states or countries.

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Any questions about this statement should be directed to VT. 3/0

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**Manufactured in Israel**



**W.E.E.E. Product Recycling Declaration**

For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.  
Directive 2002/96/EC Waste Electrical and Electronic Equipment.