



# **PT33 use's manual**

**version number : V1.0**

Mine Site Technologies Pty Ltd

# Table of Contents

Statement.....	3
General Information .....	3
Physical map .....	4
Component function .....	4
Performance index .....	5
Accessories .....	6
General attention .....	6

## Statement

Thank you for using this electronic product of our company. In order to let you experience the product swimmingly, detailed instruction is provided which you can find the product's introduction, usage and other information. Before using this product, please read the manual carefully, so that you can correctly use it. In case of any printing or translation error, we apologize for the inconvenience. As for the content change, we are sorry for no further notice.

## General Information

The Mine Site Technologies model PT33 tag is a radio frequency identification module operating at 2.4GHz. The AL2236 IC of Airoha Technologu Corp and MSP430 microcontroller unit are working together, realizing the carrier arising, signal amplify, data modulation, demodulation and decoding. Radio-frequency mode in the reader and PT33 tag no contact between the bidirectional data transmission, in order to achieve target recognition and data exchange. And the tradition of code, magnetic and IC card, compared with non-contact, RF card reading speed, wear, not by environmental impact, long life, easy to use and has the characteristics of anti-collision function. Model PT33 tag is mainly used for personnel to wear.

## Physical map

Model PT33 Tag physical map as follows.



## Component function

- LED light : After press button and low voltage alarm.
- Button : Alarm.

# Performance index

Mechanical Structure Index		
Item	Name	Specific parameters
1	Size	69mm×53mm×30mm
2	Weight	54g
Electrical Performance Index		
Item	Name	Specific parameters
1	Power supply	Battery
2	Rated voltage	DC 3.3V ~ 3.6V
3	Working frequency	Transmitter frequency:2.4GHz; Receive frequency:125KHz
4	Communication protocol	IEEE 802.11b
5	Transmitter frequency	Adjust
6	Low voltage alarm	≤3.30V
Environment Index		
Item	Name	Specific parameters
1	Operating temperature.	-25°C ~ +60°C
2	Anti-static grade	Air discharge : 8000V

## **Accessories**

1. Tag.
2. A set of Use's Manual & warranty card.

## **General attention**

1. Do not put tag on microwave oven or high-tension apparatus to avoid circuit damage and fire accident.
2. Do not use under flammable and explosive gas in case of malfunction or lighting a fire.
3. Do not put it on uneven or unstable surfaces to avoid falling off or breakdown.
4. Tag use disposable batteries. Can't recharge. You can replace if the battery capacity is insufficient. Use the battery appointed by the company. Other production may cause battery leakage, overheating, explosions and lighting a fire.
5. Tag is worn by belt clips and lanyard Around the waist.

## FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- } -Reorient or relocate the receiving antenna.
- } -Increase the separation between the equipment and receiver.
- } -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- } -Consult the dealer or an experienced radio/TV technician for help.

### FCC RF Exposure Information and Statement

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: UT33 Tag (FCC ID: N73-PT33) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use on the body is 0.180W/kg. This device was tested for typical body-worn operations with the back of the handset kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0mm separation distance at the user's body . The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

### Body-worn Operation

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0mm must be maintained at the user's body including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.