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AMT-303 User's Manual



ARTSYSTEM Co., Ltd.

	YYYY/MM/DD 2011/03/04	Document No.	Revision Code 1.0	File/Reference User's Manual	Page 2(9)
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	YYYY/MM/DD 2011/03/04	Document No.	Revision Code 1.0	File/Reference User's Manual	Page 3(9)
---	--------------------------	--------------	-------------------------	---------------------------------	--------------

Table of Contents

1. OVERVIEW	4
1.1. PURPOSE	4
1.2. SCOPE	4
1.3. CAUTIONS	4
2. BASIC STRUCTURE	6
2.1. NAME AND FUNCTION OF EACH PART OF AMT-303	6
2.2. DETAILED FUNCTION OF EACH PART OF AMT-303	7
2.3. CONSIDERATIONS IN INSTALLATION	8
2.4. SPECIFICATION	9

	YYYY/MM/DD 2011/03/04	Document No.	Revision Code 1.0	File/Reference User's Manual	Page 4(9)
---	--------------------------	--------------	-------------------------	---------------------------------	--------------

1. Overview

This document is prepared for the right use of AMT-303, P2L TAG. To maintain the equipment at the best condition with right handling methods, carefully read and fully understand this manual before using the equipment.

The specification is subject to change without notice, if necessary for improvement of performance

If you have any inquiries, please do not hesitate to contact us, the Art System Co., Ltd.
For safety, carefully read safety items in this manual before use.

1.1. Purpose

This document is the user's manual of AMT-303

1.2. Scope

This document covers the structure and the operation methods of AMT-303

1.3. Cautions



Cautions for Installation and Operation

- Beware of electric shock in installing and operating the equipment as it uses DC 5V power. Do not pull out the power supply and touch it with wet hands. You may have electric shock.
- **Check whether the output of the adaptor is DC 5V and remove the battery from the equipment before using it.**
- We are not responsible for problems caused by using a power other than DC 5V
- Avoid a place with direct sun rays and a closed hot and humid place when selecting an installation and storage position. Install and store the equipment in an indoor place under room temperature. Installing and storing it in a hot and humid place can reduce the life span of the product.



Cautions for Maintenance

- Do not place a strong impact on the equipment and do not drill the equipment. Otherwise, the equipment may be broken or the life span of the product can be short.

	YYYY/MM/DD 2011/03/04	Document No.	Revision Code 1.0	File/Reference User's Manual	Page 5(9)
---	--------------------------	--------------	----------------------	---------------------------------	--------------

 **Cautions for Disassembly**

- Do not disassemble, repair and modify the equipment, except an authorized person.
We are not responsible for any problems caused by disassembly without permission

 **Cautions According to Surrounding Environment**

- This product adopts wireless communication using ZigBee. Therefore, communication status can be worse because of surrounding environment.

 **SPECIFY SERVICE INSTRUCTIONS AND WARRANTY TERMS**

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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. If not installed and used in accordance with the instructions, it 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 and correct the interference by one or more of the following measures:

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

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

FCC NOTE:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.
SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT

ARTS	YYYY/MM/DD 2011/03/04	Document No.	Revision Code 1.0	File/Reference User's Manual	Page 6(9)
-------------	--------------------------	--------------	-------------------------	---------------------------------	--------------

2. Basic Structure

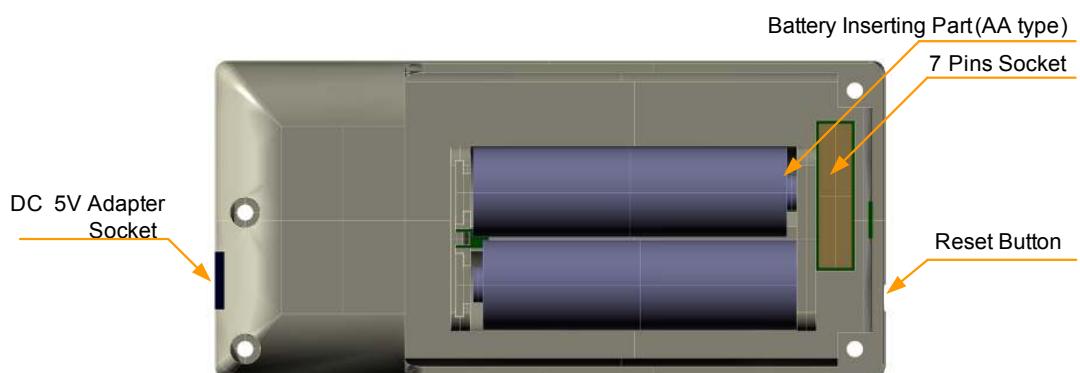
2.1. Name and Function of Each Part of AMT-303

2.1.1. The Front



- The front of the product consists of the following items as shown in the picture above.
 - LCD
 - 4 LED Buttons for Work Identification
 - 2 Quantity Modification Buttons
 - 1 SET Button
 - 1 OK LED Button

2.1.2. The Back



	YYYY/MM/DD 2011/03/04	Document No.	Revision Code 1.0	File/Reference User's Manual	Page 7(9)
---	--------------------------	--------------	-------------------------	---------------------------------	--------------

- The back of the product consists of the following items as shown in the picture above.
 - Battery Inserting Part
 - DC 5V Adapter Socket
 - RESET Button
 - 7 Pins Socket 1 Port (F/W Upgrade)

2.2. Detailed Function of Each Part of AMT-303

2.2.1. LCD Display

- LCD displays RF reception sensitivity, battery condition, work data, working quantity and workers

2.2.2. LED Button

- LED buttons are located to distinguish four different works. When they receive a work order, a corresponding LED button is blinking to show that the work is in progress.

2.2.3. Quantity Modification Button

- Quantity Modification Buttons change quantity when work descriptions have been changed..

2.2.4. OK Button

- It is used for work completion order and confirmation.

2.2.5. Power Supply Part

- DC5V
 - DC5V power connector supplies DC 5V power which is converted via an external adaptor.
- Battery Inserting Part
 - Insert two AA batteries (1.5V) to supply power, paying attention to the direction

	YYYY/MM/DD 2011/03/04	Document No.	Revision Code 1.0	File/Reference User's Manual	Page 8(9)
---	--------------------------	--------------	-------------------------	---------------------------------	--------------

However, in the battery mode, the external adapter should be removed.

- RESET
 - Reset button conducts initialization of the product

2.2.6. External Interface

- 7 pin Connector
 - It is used to update the product. **A user should not use this connector.**

2.3. Considerations in Installation

- Install the product in the center of the ZigBee Network for optimized ZigBee network management and communication. The interior and allocation of the products can affect the communication.
- Place the product in open space. Check whether there are metals, which may interfere with the communication. If there are many metals near the product, the communication may be not smoothly established.
- If you have any inquires while using and operating the system, please contact the manufacturer

	YYYY/MM/DD 2011/03/04	Document No.	Revision Code 1.0	File/Reference User's Manual	Page 9(9)
---	--------------------------	--------------	-------------------------	---------------------------------	--------------

2.4. Specification

Classification	Specification	Remark
CPU/Zigbee	CC2530(2.4GHz IEEE 802.15.4) - 2.4 ~ 2.485Ghz(16Ch)	
Antenna	Chip Antenna	
LCD	TN Segment LCD(25 x 50) - Duty : 1/4, Bias : 1/3, - Display : Positive	
Interface	- LED Lamp Push Button 4EA(Worker) - LED Lamp Push Button 1EA(OK) - Push Button 3EA(+,-,SET)	
Power	AA 1.5V 2EA(Alkaline) or 5VDC(± 10%)	