EGM-XR3BTY

User's manual

RFID ReaderWriter
interface

e-Tec Inc

Ver1.00

Ver.	Summary of changes	Reorganization date
1.0	First edition	2020.7.10

1. Introduction

Thank you very much for your purchase of wearable RFID EGM-XR3BTY. In order to use this product safely and in the best condition at all time, please read "safety precautions" and "operation method" carefully, and please understand the contents well and use it correctly.

1.1. Precautions for use

This product consists of precise electronic components. Never disassemble it. Performance can no longer be maintained, which can cause failure. If this product should fail, please contact your dealer.

1.2. Package contents

Before using, please make sure that the following accessories are available. If there is a shortage or damaged product, please contact the dealer you purchased.

＊Wearable RFID　　EGM-XR3BTY		1
＊USB dongle		1
＊USB cable		1
＊CDROM		1
＊Instruction manual (this manual)		1
＊Product warranty		1

Accessories may differ depending on the product composition you purchased.
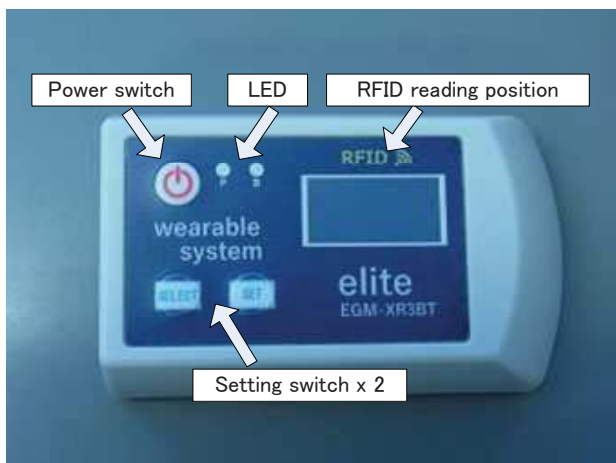
1.3. Warranty

The free warranty period for EGM-XR3BTY is 6 months from the date of purchase.
However, even during the period, you will be charged for careless handling and damage due to the storage environment. In addition, please note that we are not responsible for any loss or damage caused as a result of the operation of this product.

1.4. Repair

Regardless of whether the warranty period is inside or outside, all product repairs will be brought to our service center. We also accept repair requests by transportation. Customers are responsible for the shipping costs of repaired products. We will bear the shipping cost after the repair is completed.
Please note that we cannot provide alternative machines during the repair period.

1.5. Names and functions of each part

Switch operation

・Power Switch
　Power ON-OFF ・・・・・Press and hold the power switch

・Setting switch
　Menu display ・・・・・「SELECT」「SET」Press and hold at the same time

　System menu

System	Vibration
RFID	Datetime
Sleep	Bluetooth
Beep	Exit

LED

・Charging … Red LED lights up
・Charging completed … Red LED off; Green LED on
※For the green LED to light up, the power of the main unit must be turned on.
When the power is off, charging is completed only by turning off the red LED and not turning on the green LED.

1.6.   Battery

battery capacity is low, so please charge the battery as soon as it is displayed.
It can operate continuously for about 8 hours when fully charged.
It can be charged repeatedly about 500 times. If the usable time is shortened,
please consider replacing the battery.

※The battery of this product is a dedicated product.
Charging with a charger other than the specified one may cause damage to the
battery, charger or other equipment, liquid leakage, heat generation, or
ignition.
For battery replacement and disposal of unnecessary batteries, check with the
store where you purchased the product.
If you do not know where to purchase the product, or if you have any problems
with the processing method, please contact us at the contact information at the
end of this manual.

1.7.   About charging the battery

This unit has a built-in rechargeable battery.
Follow the procedure below to charge the built-in battery.

①Plug the charger into an electrical outlet.
Please use a charger of DC5V 1A or less.
②Connect the cable to the charging port.
③The red LED lights up during charging.
Charging time is about 3 hours.
④During charging, the red LED turns off and charging is complete.
Do not leave it as it is for a long time after charging is completed.

Plug in the charging cable.

*please note:
Be sure to disconnect the USB charging cable before using or transporting this product.
Operation with the USB charging cable connected may cause the outlet to malfunction.
When connecting to the USB charging cable, do not force the connection from an angle, but
connect it straight.

1.8.   Precautions regarding charging

Be especially careful when using the terminal continuously for a long time with the terminal connected to the charger.
If you operate the terminal for a long time while charging, the temperature of the terminal, battery pack or charger may become high.

If you notice any abnormalities such as deformation or scratches due to dropping, never use it.
It may cause the battery pack to ignite, explode, overheat, or leak.

Please do not throw it away with ordinary garbage.
It may cause ignition or environmental destruction. If you no longer need the battery pack, attach tape to the terminals to insulate it, and then bring it to the store or follow the instructions of the municipality that collects it.
If you do not know how to dispose of it, please contact the store where you purchased it.

When unplugging the power plug from the outlet, hold the charger body and unplug it.
Pulling and pulling out the cable may cause fire, burns, or electric shock.

If you do not use it for a long time, unplug the charger from the outlet.
It may cause fire, burns, or electric shock.

When cleaning, unplug the charger from the outlet.
It may cause fire, burns, or electric shock.

2. Method of operation

2.1. Bluetooth connection

This product connects the main unit and the host side by a Bluetooth connection request from the host side such as an application.

In sleep mode, when the power is turned off, the connection with the host side is disconnected.

The host will reconnect by making a connection request again.

You can check if the main unit and the host side are connected by the icon at the top of the liquid crystal display of the main unit.

2.2. Remote setting

・ Remote setting method
"Setting Menu (press SELECT.SET at the same time)" ⇒ "Bluetooth" ⇒ "Remote Setting"

Control from the host side is possible by enabling the remote setting.

2.3. RFID Tag reading

Reading of RFID tags is started by a command from the host side application. "Reading" is displayed on the LCD screen when waiting for reading.

The position where the tag is held can be read at the RFID mark on the top of the LCD.

3. Specification

item	specification
Model	EGM-XR3BTY
Battery	Lithium ion polymer 3.7V、1050mAh
power consumption	Scanning 430mW Standby 80mW or less Maximum 600mW
External interface	USB microB (charging only, communication not possible
RFID	13.56MHz ISO15693
Bluetooth	Bluetooth® 5.0 2.402 to 2.480 GHz BLE Module FCCID: A8TBM71S2
LED	Express battery information in two-color display (red, green)
Battery life	RFID continuous reading operates for about 8 hours (under our conditions) * Do not replace the battery individually, but be sure to ask the store where you purchased the product.
Operating environment	0～40℃、　35～85%RH
Storage environment	−5～50℃、　35～90%RH
Size (mm)	W57.3×H29.5×D92.3　120g

4. Radio Act

This product incorporates a reader / writer board that has received the type designation as stipulated by the Japanese Radio Law. Therefore, it is not necessary to apply for permission to install radio frequency equipment in Japan. However, please be aware that if you remodel and emit illegal radio waves, you will be violated by the Radio Law and you will be punished.

5. FCC

15C/15B

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.

FCC CAUTION

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

15B
EGM-XR3BTY

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.

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Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

6. FCC_ID Product Description

Label it with FCC_ID on the bottom of the white case.

Contains Transmitter Module FCC ID: A8TBM71S2