User Manual

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1 Introduction

PT102A is a rescue device with voice function. It works on LTE B2 / B4 / B12 network with superior receiving sensitivity. Based on the embedded wireless tracking protocol, PT102A can communicate with the backend server through LTE network, and transfer emergency reports.

2 Product Overview

2.1 Appearance



Figure 1-1

2.2 Buttons Description

Button /12PIN Interface Description		
KEY/interface	Description	
TEST Key	Query How much energy left.	
SOSKEY	Press this key to dial a phone number through LTE network	
Reset Key	Press this key to shut down the device in abnormal condition	

2.3 LED Description



To be added

Figure 1-2

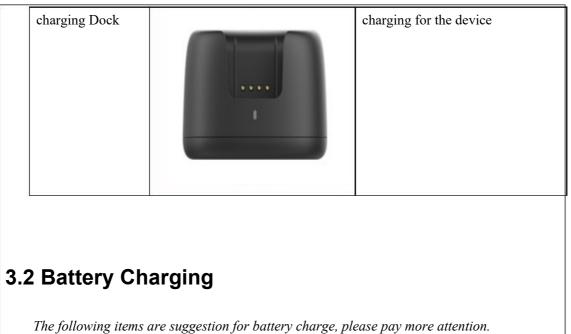
There are 2LED lights in PT102A device, the description as following.

Light	Event	State
Red LED	Power on	Steady light
	charging	Slow flash
Blue LED	Power on	Steady light
	Network indicate	Slow flash

3 Getting Started

3.1 Parts List

Name	Picture	Remark
Rescue device		



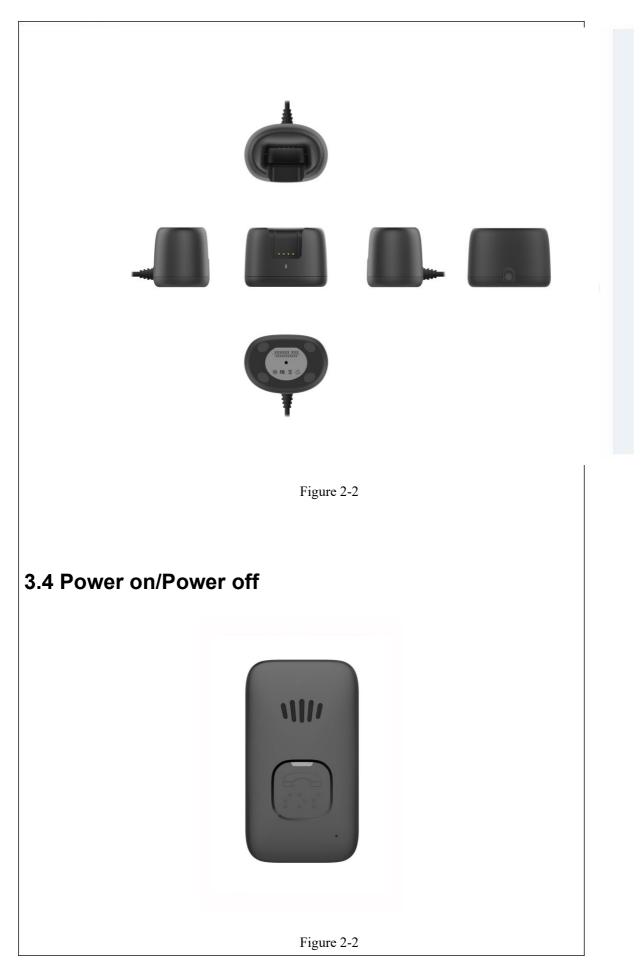
- The red LED of charging Dock will be steady light no matter rescue device is charging or not.
- Charging will last about 3 hours.

Note: If the Rescue device is firstly used, please make sure the battery is fully charged, which will make the life of battery much longer.

3.3 Charging Dock

Charging Dock is a base with an AC Adapter.

The charging dock is used for device charging , which can be used for charging at any time (by end user)..



Power on:

Press the SOS key at least 3 seconds and release it to power on rescue device.

Power off:

• Rescue device is auto power off and user can't turn off the machine by itself.

4 Frequency

LTE:Band2, Band4, Band12

WIFI:2.4GHz (only support receive function)

433: 433.92MHz (only support receive function)

GPS: 1575.42MHz

Note:The WIFI function will be activated and report the MAC addresses once the device is in alerting and scan only support,only support receive function;CMT2300A is used to receive the 433.92mHZ signal from the outside,only support receive function.

5 Trouble shooting and Safety info

5.1 Trouble shooting

Trouble	Possible Reason	Solution
Messages can't be	APN is wrong. Some	Ask the network operator for the right
reported to the	APN can not visit the	APN.
backend server by	internet directly.	
Mobile network.	The IP address or port of	Make sure the IP address for the
	the backend server is	backend server is an identified address
	wrong.	in the internet.
Unable to power off	The function of power key	Enable the function of power key by
ATW.	was disabled by	AT+GTFKS.
	AT+GTFKS.	
Battery can not be	The battery has not been	Using a external power source with 3.6V
charged	used for too long time and	to 4.2V DC power supply to active the
2	has been locked.	battery or apply for after sale help.
ATW can't fix GPS	The GPS signal is weak.	Please move ATW to a place with open
successfully.		sky.
		It is better to let the top surface face to
		the sky. (The same surface with
		indication LED)

5.2 Safety info

The following items are suggestion for safety use, please pay more attention.

Please do not disassemble the device by yourself.

- Please do not put the device on the overheating or too humid place, avoid exposure to direct sunlight. Too high temperature will damage the device or even cause the battery explosion.
 - Please do not use the device on the airplane or near medical equipment.

FCC Caution.

§ 15.19 Labelling requirements.

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.

§ 15.21 Information to user.

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

§ 15.105 Information to the user.

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.

RF Exposure Information (SAR) :

This device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and ISED(Canada) The SAR limit of FCC/ISED is 1.6 W/kg averaged over one gram of tissue.

Device types: PT102A (FCC ID: ZKQ-PT102A)/(IC: 8414B-PT102A) has also been tested against this SAR limit.

During the product certification period, according to this standard report test, the highest SAR value reported to the FCC/ISED when the device is in use It is 1.17W/kg. This device was tested for typical body-worn operations with the edge of the device kept 5mm from the body. To maintain compliance with FCC/ISED RF exposure requirements, use accessories that maintain a 5mm separation distance between the user's body and the edge of the device.

ISED RSS Warning:

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
