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## 2. Module block diagram

- It controls LAN chip, WIFI, BLE (MDBT50Q), BLE (RN4870) module and transmits and receives data.
- It performs the designated function and displays the operation status on the LED.

- It is controlled by the AP module and transmits the data transmitted from the AP module to the server through WIFI.
- The data received through WIFI is transmitted to the AP module.
- It uses 2.4G single mode and external antenna.

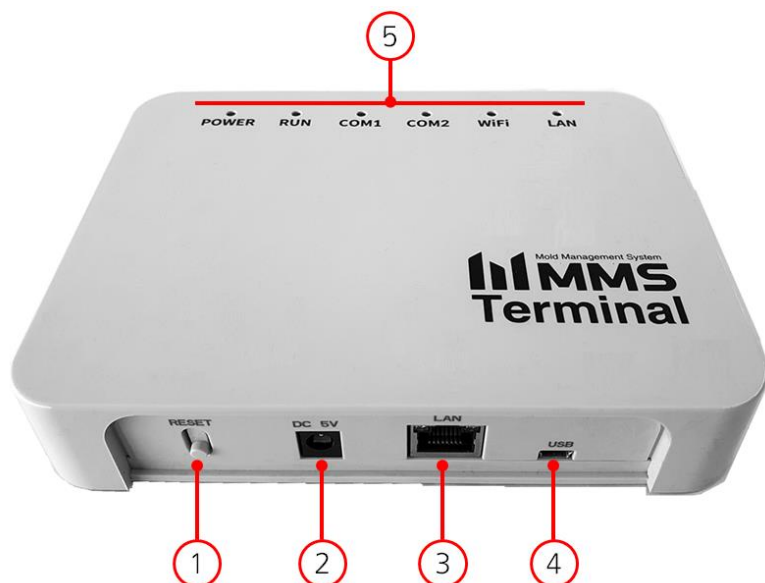
- The data transmitted from the AP module is transmitted to the counter through BLE communication.
- The data received through BLE communication is transmitted to the AP module.

- The command requested by the smartphone app through BLE communication is transmitted to the AP module.
- The result processed by the AP module is transmitted to the smartphone app through BLE communication.

[illegible]

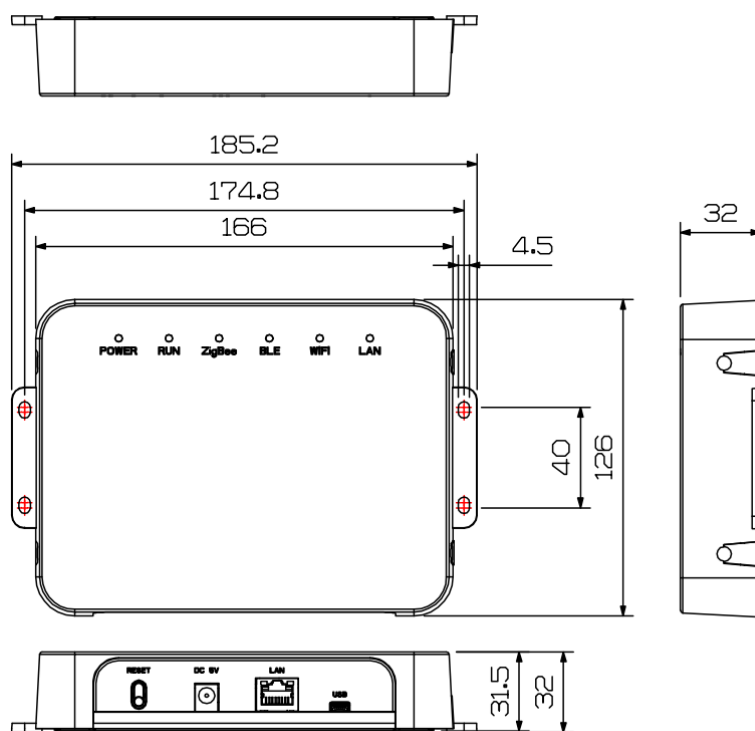
# Terminal User Manual [PSM-NGT-G01]

## 3. Appearance and name of each part



- ① RESET Button
- ② DC IN
- ③ LAN Port
- ④ Mini USB B type 5P
- ⑤ LED (Power / Run / Comm.)

## 4. Size



## 5. How to install

### ① Positioning

For communication with the counter, select and install a place with less interference.

### ② Product installation

- 1) Fix the 4 corners of the product with screws for equipment installation.
- 2) Connect the 5V adapter power to the equipment.

### \*Installation precautions

This device can only be installed by professional installers.

This device should be installed in an installation location that can only be controlled by a professional installer, and an installation location is required.

General users, in case of problems, contact a professional installer.

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## ③ Communication status check

- 1) Check the Internet status by turning on the LAN / WIFI LED.
- 2) Check the power status by turning on the Power LED.
- 3) LED operation status

Type	Color	Operation	LED Status
RUN	White	Booting	blinking quickly
RUN	White	In operation	blinking every second
LAN	green	Internet comm.	LED blinking
WIFI	yellow	Internet comm.	LED blinking
BLE	blue	BLE comm.	LED blinking
Power	red	Power on	LED always on

## 6. Product Information

### ① Features and functions

- 1) Receive counter information wirelessly.
- 2) Send the received counter information to the server through the Internet
- 3) Transfers the PRESET information registered in the server to the counter.
- 4) Time synchronization of the counter
- 5) Automatic update by connecting to server
- 6) Command processing through smartphone APP
- 7) Administrator command mode support (Debug port)

### ② Hardware specification

- ◆ ARM Cortex-A8 1GHz Processor
- ◆ 4GB eMMC flash storage
- ◆ 512MB DDR3 RAM
- ◆ 2.4GHz Wireless BLE, WIFI
- ◆ Ethernet

### ③ Rating

Usable temperature	-25 ~ 80 °C	Warranty	2 years (based on the date of manufacture)
Comm. cycle (Internet)	10 minutes	DC power	5V 3A

### ④ QR code system (13 digits)

Number of digits	3	2	2	3	3
Code	Model	Production year	Production week	Server code	Serial Number
Display	BTM	20	01	KRE	001
remarks	Terminal	2020 year	01 week	-	number 1

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## 7. Troubleshooting.

The status display and resolution are as follows.

state	cause	resolution
When Power LED (red) is off	Power is not connected.	Power connection.
	DC 5V adapter failure.	DC 5V adapter replacement
When the RUN LED (white) blinks quickly	Booting process after connecting power.	Normal blinking after booting is complete
When the LAN LED (green) or WIFI LED (yellow) blink quickly.	No internet connection.	Internet connection
	Internet configuration error	Check Internet configuration
	Server connection failure	Normal operation after connecting to server

## 6. Precautions

- ① Injury may occur when installing the product, so wear protective equipment before work.
- ② Communication failure may occur in metal walls or enclosed environments that cause wireless interference.  
If communication failure continues to occur, check the cause of the failure and remove it.
- ③ Please note that the service cannot be provided for damage caused by non-standard environment, user carelessness, or arbitrary manipulation.

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## FCC Information to User

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 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.

## Caution

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

FCC Compliance Information : 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 complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

제조사 :



판매·제품문의 :

