

printing test is completed.

- Release both keys and read through the printed lines until the label 'LADD' is found: following is the MAC address of the printer.

4. Enter password "0000".

5. Finish pairing.

For further notes on how to perform the pairing procedure, refer to the main device instruction manual provided by the constructor of the master device. During the pairing procedure the printer has to be powered on.

Note: During the pairing procedure, only one of the Bluetooth printers must be powered on, otherwise it won't be possible to realize with which printer the main device is being paired to.

When the pairing phase is complete, other main devices can be paired with the same mobile thermal printer. The maximum number of main devices that can be connected to each printer is 8. If more than 8 devices are connected to the same printer, the first paired printer addresses will be automatically deleted from the printer pairing list. If it is necessary to use these devices with the Bluetooth printer, a new pairing procedure must be performed.

After the main devices with virtual Bluetooth interface (smart phone, pocket PC, palm, notebook) are paired they can drive the mobile thermal printer.

LED indicator and Buzzer

In order to show the status of the printer, there are one buzzer and three LED indicators.

The LED indicators shows current status and the buzzer signals the changes of status:

ERROR	STATUS	BATT	
Blinks	Blinks	Switched on, color depending on the battery status	Charging
Off	Off	Lit red	Low battery energy (<15 %)
Off	Off	Lit yellow	Medium battery energy (40-15%)
Off	Off	Lit Green	High battery energy (100-40%)
On	Blinks	Lit Green	Battery fully charged
Off	Off	Switched on, color depending on the battery status	Power on
On	Blinks	Lit Green	Out of paper
Off	Off	Blinks	Sleep mode

TECHNICAL FEATURES

Power Supply: 7,4V - 1600mAh
Rechargeable Li-Ion battery
Battery full charge time: 3 hours
Battery life: 3 hours
In stand-by mode: >15 days

Bluetooth working range: 100 meters
Low battery alarm: when the battery is low, the power indicator "BATT" is lit in red color

Printing method: Thermal line
Paper width: 56mm
Paper thickness: 60 ~ 80µm
Valid printing width: 48 mm
Resolution: 8 dot/mm (203 dpi)
Dot /line: 384 dots
Printing speed: 50-80 mm/s
Printing content: GB18030 character set, ASCII characters, user defined characters, bar codes CODE39, EAN13, EAN8, CODABAR, CODE93, ITF, bitmaps

Interface: Bluetooth
Outer dimension: 75 x 103 x 46 mm (WxHxD)
Weight: 240g
Paper Diameter: ≤ 40 mm
Operation temperature: -10°C .. 50°C
Storage temperature: -20°C .. 70°C
Operation humidity: 20% .. 85%
Storage humidity: 5% .. 95%
Paper loading: drop-in easy loading
Out-of-paper detection: when the printer runs out of paper, the "STAUS" LED blinks ESC/POS compatible command set

Print commands:

WARRANTY

In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice. The consumer is guaranteed against any lack of conformity according to the European Directive 1999/44/EC as well as to the manufacturer's document about the warranty policy. The full text of warranty is available on request from the seller.

AAST040001SE

THERMAL PRINTER WITH BLUETOOTH® COMMUNICATION



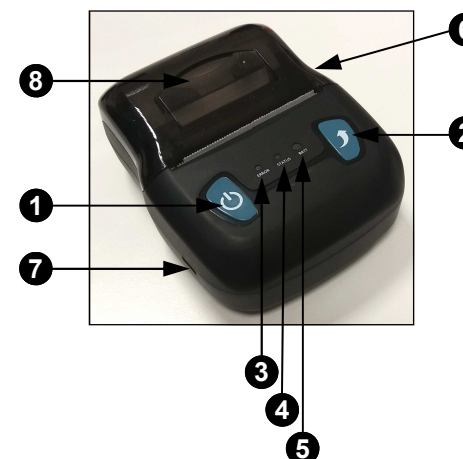
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DESCRIPTION OF COMPONENTS



LEGEND:

- 1) On / Off Button / Font size setting
- 2) Paper feed button
- 3) Fault status indicator
- 4) Status indicator
- 5) Battery level indicator
- 6) Front cover
- 7) Battery charger plug
- 8) Lid for the upper cover opening
- 9) Li-Ion battery

PRECAUTIONS

1. Safety Precautions

Be sure to use the specified battery and power source provided by our company. A use of an improper power source may cause fire, explosion or damage to the printer.

Do not throw the battery into fire or water, don't disassemble or modify the battery, don't short circuit it, otherwise injury or explosion may occur.

If the printer is going to be unused for a long time, be sure to remove the battery, otherwise it may leak corrosive liquid; if improper operation causes the battery to leak, and the liquid is shed on the skin or clothes, please wash with water, if shed in the eyes, please rinse them with water thoroughly and see a doctor.

Do not open the paper case cover when it is printing or immediately after, do not touch the print head with bare hands or body, overheat may cause damages.

2. Operation Precautions

Be sure not to print continuously over 1 meter of paper, otherwise it may cause damage to the printing head.

Water or other liquid should not be spilled on the printer, also the printer should not be exposed to rain, because this may cause damages to the printer itself.

Please do not open the paper case cover when it is printing, otherwise the printer may work improperly.

When printing with serial interface, do not unplug the interface cable during printing, or else some printing data may be lost.

When printing with Bluetooth interface, the communication distance should be within 10 meters, otherwise the printer will not print or print with wrong codes.

Too high (50°C) or too low (-10°C) temperature and too high (85%) or too low (20%) relative humidity affect the print quality.

Poor quality print paper or paper stored for long time also may reduce the print quality or even damage the printer.

Be sure to use to right amount of power in order to charge it, as it can ensure a long battery life.

3. Storage Precautions

The printer should be placed in such an environment that the temperature is between -20°C and 70°C, and the relative humidity is between 5% and 95%.

If the printer is stored for a long time, please be sure to remove the battery, otherwise some damages to the battery and printer may occur.

Normal thermal paper can't be kept too long, if you need to keep the ticket for a long period of time, please choose long term effective thermal paper.

The print paper should be kept away from high temperature environments and point-blank sunshine.

4. Battery Safety Precautions

Be sure to carefully read the user manual before using the product.

By ignoring the following instructions the battery could cause overheating, fire, explosion, damage and / or poor performances and reduced product life.

- Do not allow water to enter or to leak inside the battery slot. If the batteries internal safety device is damaged, when recharging the batteries, abnormal current and/or voltages may occur, and can cause

abnormal chemical reaction, then may cause the battery overheating, fire and / or explosion.

- Do not use or place the battery nearby the stove or other high temperature environments. Excessive heat may damage the resin shell and/or the insulation materials, causing short-circuit inside the battery; in this conditions the battery may over-heat, burn and/or explode.
- When recharging, only use the provided power plug. Other conditions (high temperature, high pressure / high current, using a modified battery charger, etc.) not mentioned here may result in over-charging the battery, abnormal current and/or voltages, abnormal chemical reactions, and may cause the battery to overheat and/or explode.
- The battery is clearly marked with positive and negative poles. When the battery is connected with the charger and/or printer, be sure to verify the correct battery orientation. Wrong insertion will cause the reverse charging and may cause abnormal chemical reactions, overheating, ignite and/or explosion.
- Avoid to make the battery come in direct contact with power outlets and/or car cigarette lighter sockets. This may cause high pressure and excessive current, and lead to the battery overheat, burning and/or explosion.
- Do not heat the battery or throw it in flames. This may melt the insulation material and/or damage safety devices or safety equipment and ignite the electrolytic solution, cause the battery to overheat, burning and/or explosion.
- Do not connect the battery with opposite poles (+) and (-). When charging, this will cause the reverse charging and may cause abnormal chemical reactions. When in use, may appear unpredictable current exception, and cause the battery overheat, ignite, and / or explosion.
- Do not make the battery poles (+) and (-) to come in contact with any metal. Also, do not carry along or store batteries with metal objects, such as necklaces, hair clips and so on. Battery internal short circuit may cause excessive current, and lead the battery to overheat, ignite, and/or explode; the nearby metal objects (necklaces, hairpins, etc.) may be overheated.
- Do not physically damage the battery. If the internal safety device of the batteries burn, the battery may cause abnormal currents and/or voltages, abnormal chemical reactions, overheat, ignite, and/or explosion of the battery.

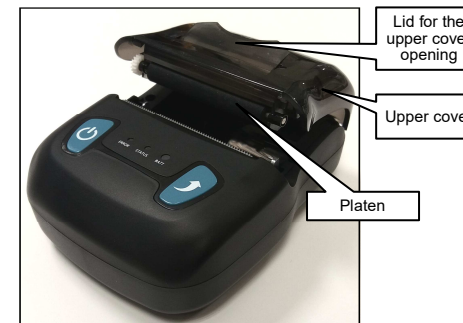
OPERATION

PRELIMINARY OPERATIONS

Li-ion battery installation



- Refer to the picture, put the battery in the battery slot; please pay attention to the correct positive and negative.
- Close the battery case.



Paper loading:

- Use two fingers to press the place showed in the picture and open the upper cover.
- Put the paper into the paper case, pay attention to the direction of the paper. If loaded reversely, it won't print.
- Pull paper out of paper case.
- Make sure paper in the center then close upper cover.

BASIC FUNCTION

Power on

The printer turns on by pressing the power button for 2 seconds; the power indicator is lit according to the battery charging status and the buzzer emits a sound.

Note: when the battery charge is almost finished, the power indicator is lit with red light; in this case, charge the battery using the power plug. About the details on how to recharge the battery, please refer to the relevant paragraph.

Power off

The printer is switched off by pressing the power button for 2 seconds. All the indicators turn off when the printer is powered off.

Self-test

The self-test checks the printer current settings, status and whether the printer has any problems.

In order to start the self-test, when the printer is off, press and hold both buttons "FEED" and "POWER" at the same time for about 2 seconds.

The printer is ready to receive data as soon as it completes the self-test.

Paper loading

With the printer turned on, push the FEED button to start feeding; it will stop automatically after feeding about 25mm of paper. The paper will continue to scroll until the button is released.

If the special black mark is present on the paper roll (the detecting mark) it will be recognized by the printer and it will stop printing when detecting the black mark. If feeding paper length is 0mm, feeding will not be effected by black marks.

Battery Charging

When li-ion battery is low on energy (<15%), the "BATT" LED is lit red; if the printer keeps on printing, after a while it will shut down automatically. In this case it is necessary to recharge the battery.

Charging procedure: Insert in the power plug (230V, 50Hz): the "BATT" LED is lit red, yellow or green depending on the battery charging status, while the other two LEDs "ERROR" and "STATUS" indicators blink. When the battery is fully charged, the "BATT" LED is lit green and the buzzer emits a sound. When on charging phase, printing is available.

Font size setting

The default size of the printing font is 12X24; anyway, this can be modified as follows:

- By keeping pressed the "POWER" button, the following acoustic signals will be heard in sequence:
 1. One brief beep: Printer power on (if it was previously turned off);
 2. Long beep: Printer switching off;
 3. Two beeps in fast sequence: set font to 12X24 (default);
 4. Three beeps in fast sequence: set font to 9X24;
 5. Four beeps in fast sequence: set font to 9X17;
 6. Five beeps in fast sequence: set font to 8X16;



WARNING! If during the self-test phase the font is too small follow the procedure described above to bring back the default size.

INTERFACES

Bluetooth

Before printing, MPT - II/BL need to be paired with main devices that drives the mobile thermal printer. The pairing process is performed by the main device.

This processes is structured as follows:

1. Power on printer
2. Search, on the main device, the Bluetooth printer
3. If there are several Bluetooth devices, select the relevant MAC code.

The printer MAC code (LADD) is found on the test ticket; to print that follow this procedure:

- Make sure that the printer is powered off.
- Press and keep pressed the "FEED" and the "POWER" button at the same time, until the

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