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1. Safety Instructions

1. Please read this information carefully.
2. Keep these instructions in a safe place for future use.
3. Before cleaning the device, it should always be disconnected from the power supply. Do not use any liquid or aerosol cleaning agents. A damp cloth is most suitable for cleaning.
4. The power socket should be close to the device and easy to access.
5. The device must be protected against moisture.
6. Make sure that the device is securely positioned during set-up.
   If it tips over or falls to the floor, it could be damaged.
7. When connecting to the power supply, it is important to note the connected loads.
8. This device can be operated at ambient temperatures not exceeding 40°C.



A CR2032 lithium battery is installed in the main board.
Risk of explosion if battery is replaced by an incorrect type.



Dispose of used batteries according to the manufacturer's instructions.

Explanation of Symbols

The following symbols are used in these instructions:

▶ Indicates a required action

▷ Describes what happens after you have performed a particular step

1. Perform steps in the specified order
2.

– Indicates an item in a list

2. Operations Overview

2.1 Unpacking and Inspection

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer upon receiving the bar code printer. Please retain the packaging materials in case you need to reship the printer.

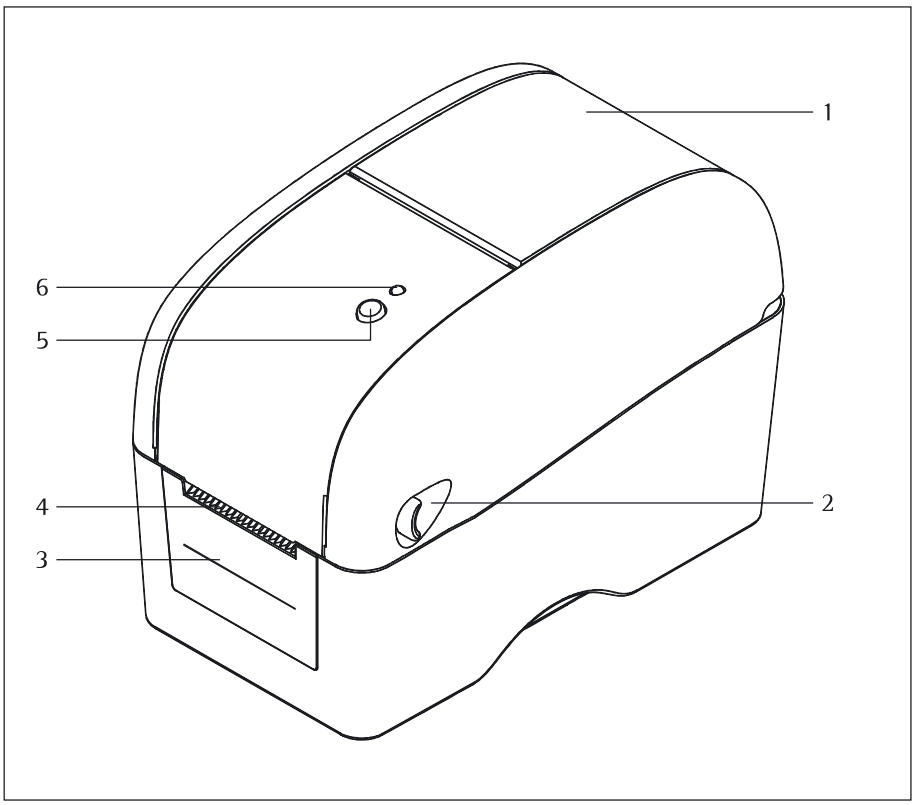
Unpacking the printer, the following items are included in the carton.

- Printer unit
- Operating instructions
- Power supply WDS060240 (Sartorius order no: 69Y03294)
- USB interface cable (Sartorius order no: 69Y03293)
- RS-232 interface cable (Sartorius order no: 69Y03295)
- Country-specific power cord
- Paper roll

If any parts are missing, please contact the Customer Service Department of your local retailer or distributor.

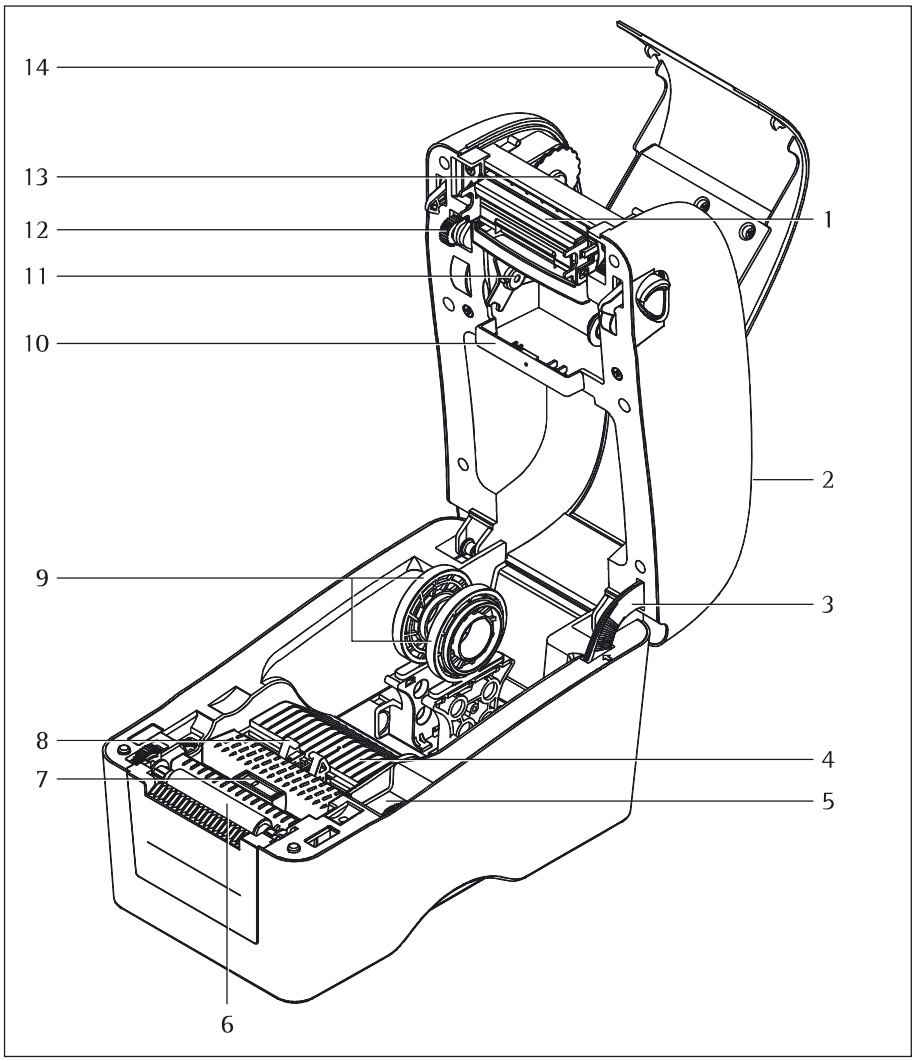
2.2 Printer Overview

2.2.1 Front View



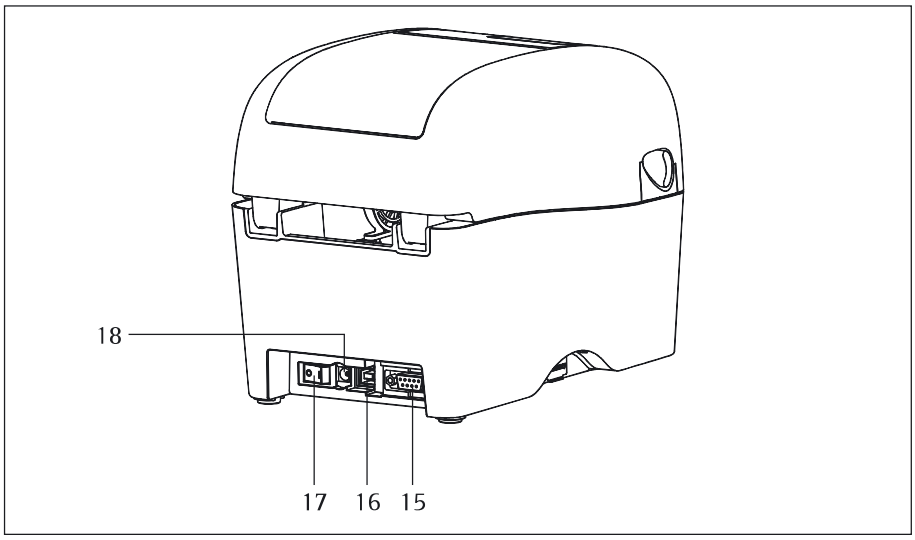
Item	Description
1.	Media view window
2.	Top cover open lever
3.	Peel-off panel
4.	Paper exit chute
5.	Feed button
6.	LED indicator

2.2.2 Interior View



Item	Description
1	Print head
2	Top cover
3	Top cover support
4	Gap sensor (transmitter)
5	Media guide adjuster knob Ribbon supply hub
6	Platen roller
7	Black mark sensor
8	Media guide
9	Media holders
10	Gap sensor (receiver)
11	Ribbon supply hub
12	Ribbon rewind gear
13	Ribbon rewind hub
14	Ribbon access cover

2.2.3 Rear View



Item	Description
15	RS-232C interface
16	USB interface
17	Power switch
18	Power jack socket

3. Setup

3.1 Setting Up the Printer

1. Place the printer on a flat, secure surface.
2. Make sure the power switch is set to “off.”
3. Connect the printer to the balance with the provided cable.
4. Plug the power cord into the AC power cord socket at the rear of the printer,

   and then plug the power cord into a properly grounded power outlet.

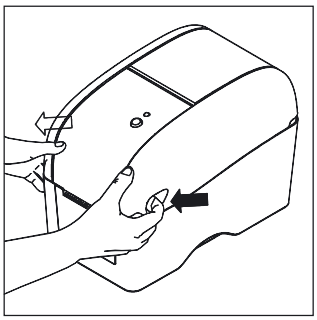
Please switch OFF the printer power switch before plugging the power cord into printer power jack.

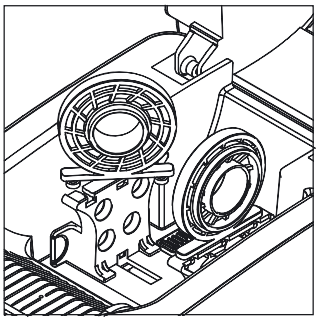
When using the RS-232C interface and cable, refer to ▶ Section 4.3 for setup of the serial interface parameters.

3.2 Loading the Media

3.2.1 Loading the Media

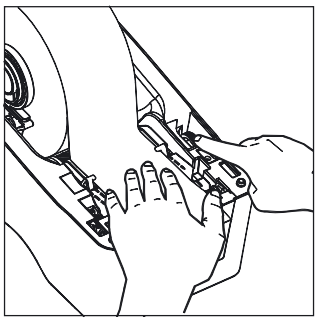
1. Open the printer top cover by pulling the tabs located on each side towards the front of the printer, and then lift the top cover to the maximum open angle.





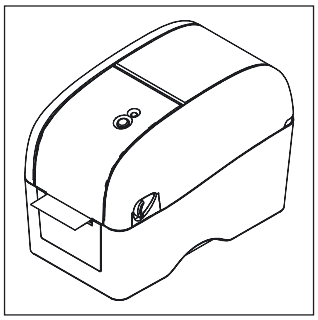
2. The media holder can be used for 1” and 1.5” media cores by rotating the upper part of the label holder 180 degrees clockwise.

3. Adjust the media holders to the label roll width.
   Place the roll between the holders and lock them onto the core.

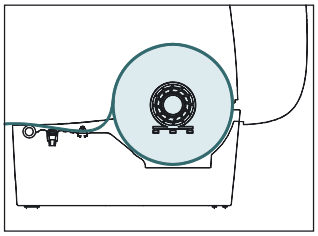


4. Put the paper, with the printing side facing up, through the media guides and under the media sensor and place the label leading edge onto the platen roller.

5. Move the media guides to fit the label width by turning the guide adjuster knob.



6. Gently close the top cover. Make sure the cover is securely fastened.



7. Loading Path for Media

3.2.2 Loading Media in Peel-off Mode

1. Refer to Section 3.2.1 to load the media.

2. Open the top cover and peel-off panel after calibrating the sensor.



3. Release the paper from the support material. Guide the support material through the “Backing paper opening.”



4. Push the peel-off panel back to the printer.



5. Close the top cover gently.



6. Press the FEED button to do a test.



3.2.3 Loading the Thick Media (Thickness is 0.19 mm)

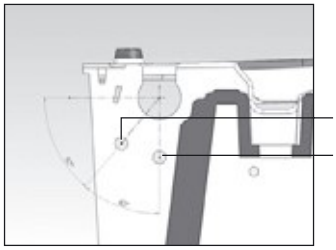
1. Open the printer top cover by pulling the tabs located on each side towards the front of the printer, and then lift the top cover to the maximum open angle.



2. Remove the lower front cover.



3. Disengage the platen holder tabs from the lower inner cover by pulling out the right side and left side tabs. Move both side tabs into the 90 degree position for a thick label.

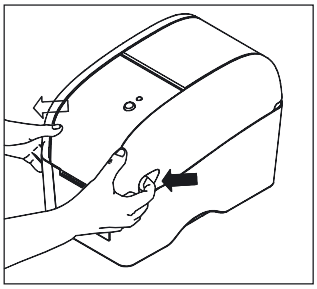


1 = The tab here is for a regular label.
2 = The tab here is for a thick label (thickness is 0.19 mm).

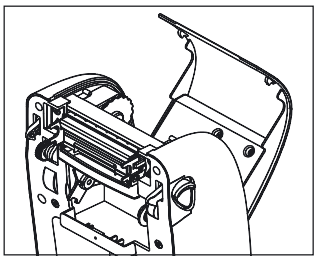
4. Reassemble in the reverse procedure.

5. Refer to Section 3.2.1 to load the media.

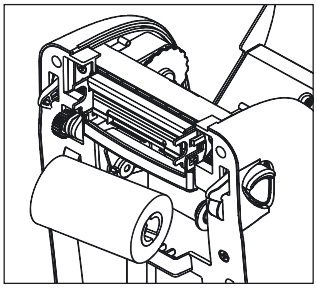
3.3 Loading the Ribbon



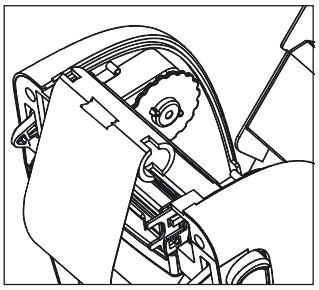
1. Open the printer's top cover by pulling the top cover open levers located on each side of the printer and lifting the top cover to the maximum open angle.



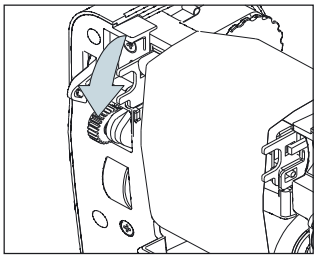
2. Open the ribbon access cover.



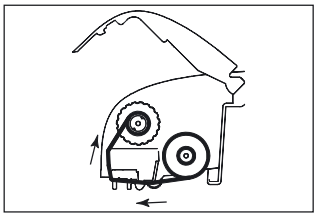
3. Insert the right side of the ribbon into the supply hub. Align the notches on the left side and mount the ribbon on the spokes.



4. Stick the ribbon onto the ribbon rewind paper core and insert the paper core onto the rewind hub.



5. Turn the ribbon rewind gear until the ribbon plastic leader is thoroughly wound and the black section of the ribbon covers the print head.
   Close the ribbon access cover and the top cover.



6. Loading path for ribbon

4. LED and Button Functions

This printer has one button and one three-color LED indicator. By indicating the LED with different colors and pressing the button, the printer can feed labels, pause the printing job, select and calibrate the media sensor, print a printer self-test report, reset printer to default (initialization). Please refer to the button operation below for different functions.

4.1 LED Indicator

LED color	Description
Green | Solid	This indicates that the power is on and the device is ready to use.
Green | Flash	This indicates that the system is downloading data from PC to memory or the printer is paused.
Amber	The system is clearing data from the printer.
Red | Solid	Top cover open.
Red | Flash	Printing error, such as paper empty, paper jam, or memory error, etc.

4.2 Feed Button Function

1. Feed paper
When the printer is ready, press the button to feed the paper.

2. Pause the printing job
When the printer is printing, press the button to pause a printing job. When the printer is paused, the LED will flash green. Press the button again to continue the printing job.

4.3 Setting Up the RS-232 Interface

The RS-232C interface has a factory default setting:
- Baud rate: 9600Bd
- Parity: Odd
- Data bit: 8
- Stop bit: 1

To change the settings of the RS-232 interface, follow the steps below.

1. Turn off the power switch.

2. Turn on the power switch.

3. Wait for “Sartorius Logo” to be printed.

4. Press the feed button within 3 seconds to enter Setup mode.

▷ printer prints:SETUP SERIAL PORT:
PRESS KEY: 9600Bd8O1
WAIT 5s: next option
- Press the feed button within 5 seconds.

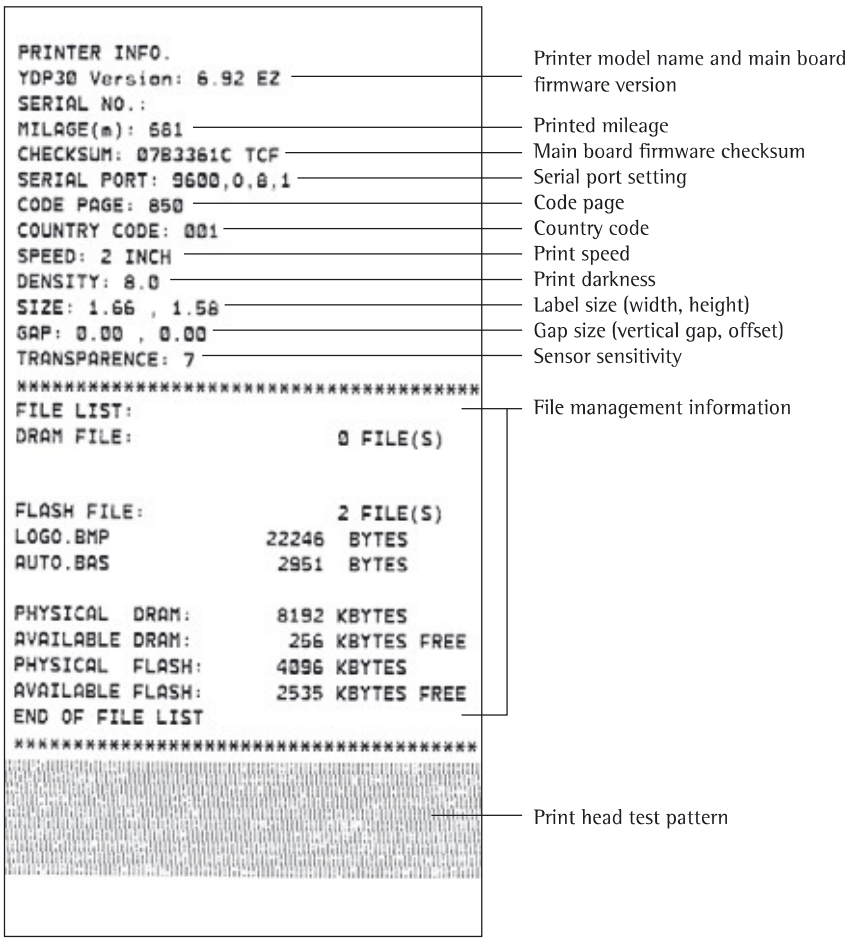
▷ The serial interface is set to 9600 baud, odd parity, 8 data bit, 1 stop bit. This setting is compatible with printer YDP10-0CE for Cubis balances.
- If the feed button is not pressed within 5 seconds.

▷ printer prints: PRESS KEY:
1200Bd7O1WAIT 5s: next option
- Press the feed button within 5 seconds.

▷ The serial interface is set to 1200 baud, odd parity, 7 data bit, 1 stop bit. This setting is compatible with printer YDP20-0CE and most of Sartorius’ older balances.
- If the feed button is not pressed within 5 seconds.

▷ No changes to the RS-232 interface will be made and a self-test is printed.

Self-Test Printout



5. Troubleshooting

The following guide lists the most common problems that may be encountered when operating this printer. If the printer still does not function after all the suggested solutions have been attempted, please contact the Customer Service Department of your local retailer or distributor for assistance.

5.1 LED Status

This section lists the common problems indicated by the LED status and other problems you may encounter when operating the printer. Solutions are also provided.

LED Status | Color	Printer status	Possible cause	Recovery procedure
OFF	No response	– No power	– Turn on the power switch. – Check if the green LED lights up on the power unit. If it does not light up, the power supply has been disconnected. – Check both power connections from the power cord to the power supply and from the power s upply to the printer power jack to ensure that they are securely connected.
Solid Green	ON	– The printer is ready to use	– No action necessary.
Flashes green	Break	– The printer is paused	* Press the FEED button to resume for printing.
Flashes red	Error	– Out of label or the printer setting is not correct	1. Out of label – Load a roll of label and follow the instructions in loading the media then press the FEED button to resume for printing. 2. Printer setting is not correct

5.2 Print Problem

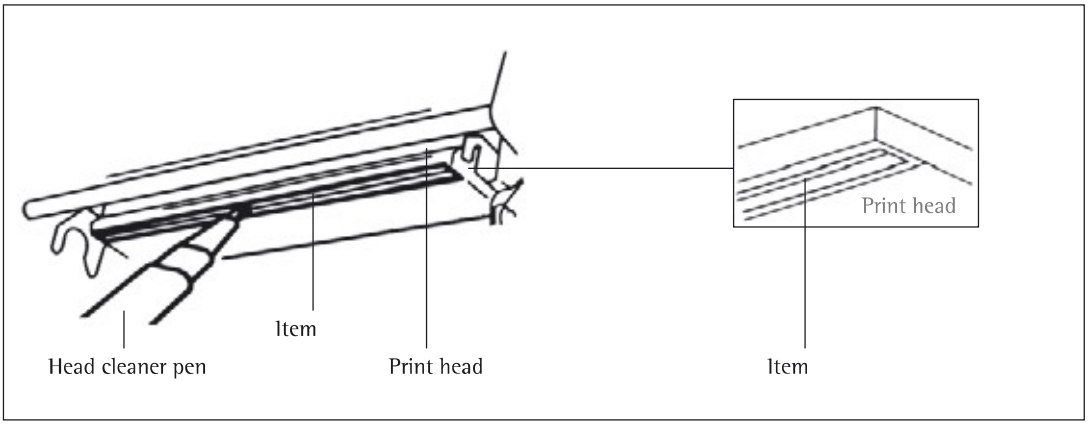
Problem	Possible cause	Recovery procedure
Not printing	– Check if interface cable is well connected to the interface connector.	– Reconnect cable to interface.
	– The serial port cable pin configuration is not correct.	– Please use the Sartorius cable provided.
	– The serial port setting is not consistent between the host and printer.	– Please reset the serial port setting.
No print on the label	– Label loaded incorrectly. – Ribbon loaded incorrectly	– Follow the instructions for loading the ribbon and media.
Continuous feeding labels	– The printer setting may go wrong.	– Please do the initialization and gap | black mark calibration.
Paper jam	– Gap | black mark sensor sensitivity is not set properly (sensor sensitivity is not enough)	– Calibrate the gap | black mark sensor.
	– Labels may be stuck inside the printer mechanism near the sensor area.	– Remove the stuck label.
Poor print quality	– Top cover is not closed properly.	– Close the top cover completely and make sure the right side and left side levers are latched properly.
	– Wrong power supply is connected to printer.	– Check if 24V DC output is supplied by the power supply.
	– Check if supply is correctly loaded.	– Reload the supply.
	– Check if dust or adhesives have accumulated on the print head.	– Clean the print head.

6. Maintenance

This section presents the clean tools and methods to maintain your printer.

1. Please use one of the following materials to clean the printer.
   – Cotton swab (head cleaner pen)
   – Lint-free cloth
   – Vacuum | blower brush
   – 100% ethanol

2. The cleaning process is described as follows:



Printer part	Method	Interval
Print head	1. Always turn off the printer before cleaning the print head.	Clean the print head when changing a new label roll
	2. Allow the print head to cool for at least one minute.	
	3. Use a cotton swab and 100% ethanol to clean the print head surface.	
Platen roller	1. Turn the power off.	Clean the platen roller when changing a new label roll
	2. Rotate the platen roller and wipe it thoroughly with 100% ethanol and a cotton swab, or lint-free cloth.	
**Tear bar	peel bar**	Use the lint-free cloth with 100% ethanol to wipe it.	As needed
Sensor	Compressed air or vacuum	Monthly
Exterior	Wipe it with a water-dampened cloth	As needed
Interior	Brush or vacuum	As needed



- **Do not touch the printer head with your hand. If you inadvertently touch it, please use ethanol to clean it.**
- **Please use 100% ethanol. DO NOT use medical alcohol which might damage the printer head.**
- **In order to maintain the printer's performance and extend the printer's service life, regularly clean the print head and supply sensors when you change to a new media.**

7. Specifications

Printer	YDP30
Resolution	203 dpi
Printing method	Thermal transfer and direct thermal
Max. print width	54 mm (2.13”)
Physical dimension	241.3 × 139.9 × 177.4 mm (L × W × H) 9.5 × 5.5 × 6.98” (L × W × H)
Ribbon capacity	90 m, max. 37 mm (1.46”) OD, 12.7 mm (0.5”) core
Ribbon core width	56-58 mm (2.20 – 2.28”)
Media capacity	127 mm (5’’) OD
Interface	– RS-232 (max. 115,200 bps) – USB 2.0 (full speed mode)
Power	External universal switching power supply – Input: AC 100-240 V – Output: DC 24V, 2.5A
Media wound type	Outside wound
Media width	15-60 mm (0.59-2.36”)
Media thickness	0.06-0.19 mm (2.36-7.48 mil)
Media core diameter	25.4-38 mm (1-1.5”)
Power supply WDS060240	Automatically switches to correct mains voltage
Environmental conditions	– Operation: 5-40°C, 25-85% non-condensing – Storage: –40-60°C, 10-90% non-condensing
Safety regulation	FCC Class B, CE Class B, C-Tick Class B, UL, CUL, TÜV/Safety, CCC

8. Accessories

Description	Order number	
Standard paper and ribbon set	69Y03285	
Self-adhesive paper and ribbon set	69Y03286	
Standard thermal paper	69Y03287	
Self-adhesive thermal paper	69Y03288	
Power supply WDS060240	69Y03294	
Power cords	6900900 (Euro) 6900901 (US/CDN) 6971945 (UK) 6971980 (Denmark)	6900905 (AUS) 6900902 (ZA) 6971776 (Italy) 6971975 (Israel)