

## EXTERNAL DOT MATRIX PRINTER FOR MEDIA PREPARATORS

### ITS-MP

A PRACTICAL AND EFFICIENT SOLUTION  
FOR PHYSICALLY DOCUMENTING THE  
RESULTS OF EACH STERILIZATION  
CYCLE

ACCESSORY



# External dot matrix printer



## APPLICATION

- + Allows quick printing on paper of the most relevant results from each sterilization cycle carried out in the media preparator.



A factory special adaptation is required.

## CHARACTERISTICS

- Impact printing on paper.
- External placement with a wired connection to the media preparator, allowing flexibility in positioning.
- The configuration of the print type, cadence, or printing of tickets for previous tests is done from the media preparator screen.
- Selectable print frequency between 10 and 240 seconds.
- Prints tickets with the most relevant data of each cycle: program name, temperature evolution, date and time and error messages.
- The consumable paper can be replenished autonomously.
- The consumable in ribbon can be replenished autonomously.
- Energy efficiency function.
- Connection: RS-232.

## RECOMMENDED FOR:

- Quickly identify the process each preparation has undergone.
- Situations where the use of a computer with SWMP software is not feasible (lack of computer, room conditions, etc.).
- Improve traceability of experiments or productions.

### Possibility to choose 2 printing modes through the media preparator screen:

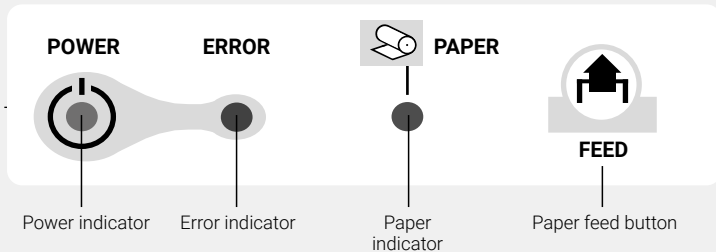
- **Simplified printing at the end of a cycle:** the ticket is printed when thermal processing has ended and it includes essential information.
- **Extended printing during cycle:** the ticket is printed continuously, minute by minute, and includes extensive information with detailed parameters evolution.

# External dot matrix printer

## Buttons and indicators



On/off switch



## Tickets

Simplified ticket

```

1 AE-60-HP - 42932
2 P3 AGAR F-20
3 P3 TEMP:121.0° F:20.0 min

4 CYCLE NUMBER 8

10 THAX: 122.7 C Tmin: 0.0 C
    PMAX: -10000.0bar Pmin: 10000.0bar

11 TOTAL TIME: 88min

*****
12 STERILIZATION OK
*****

13 DATE - HOUR 30/06/2023 08:31
    
```

Extended ticket

```

1 AE-60-HP - 42932
2 P3 AGAR F-20
3 P3 TEMP:121.0° F:20.0min

4 CYCLE NUMBER 8

5 DATE RATE: 1min
  07:03 0 44.5°C 44.2°C VACUUM

  T. FASE: 0001 min

6 07:04 0 48.7°C 49.4°C HEATING
  07:05 0 55.3°C 49.7°C HEATING
  ...
  T. FASE: 0035 min

7 07:39 0 111.5°C 100.6°C STERIL.
  07:40 0 113.3°C 102.2°C STERIL.
  ...
  T. FASE: 0036 min

8 08:15 0 117 68.3°C 98.2°C COOLING
  08:16 0 117 66.2°C 95.3°C COOLING
  ...

9 END OF PROCESS *****

*****
12 STERILIZATION OK
*****

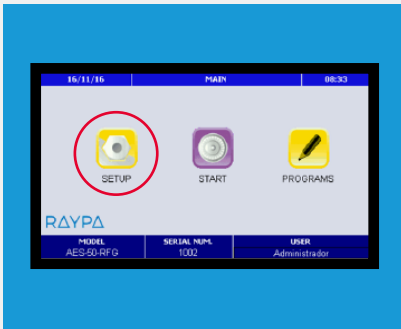
13 DATE - HOUR 30/06/2023 08:31
    
```

1. Media preparator model and serial number.
2. Program number and name.
3. Selected temperature and time.
4. Total number of cycles performed by the media preparator.
5. Cadence.
6. Start of heating phase.
7. Start of sterilization phase.
8. Start of cooling phase.
9. End of cycle.
10. Temperature.
11. Total cycle time.
12. Cycle result.
13. Date and time.

# External dot matrix printer

## Printer configuration settings from the microprocessor screen

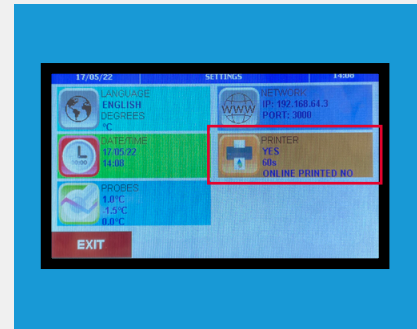
Available languages: Spanish, English, French and Catalan



1. From the media preparator screen, access the "SETUP" menu.

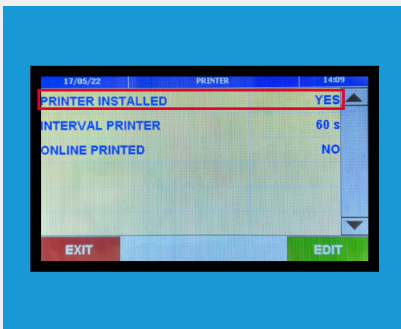


2. Enter the "SETTINGS" menu.

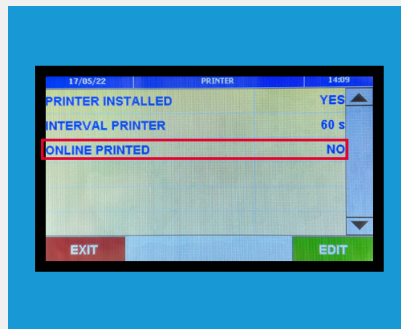


3. Enter the "PRINTER" menu.

The configured options are visualized. To modify them, enter this menu.

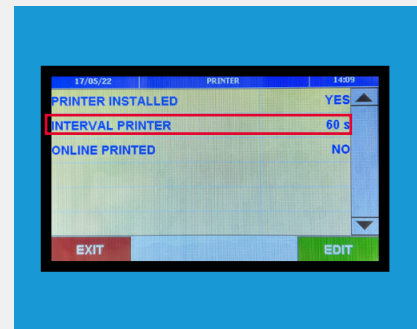


4. Verify that the "PRINTER INSTALLED" option indicates "YES".



5. From the "ONLINE PRINTED" option you can select:

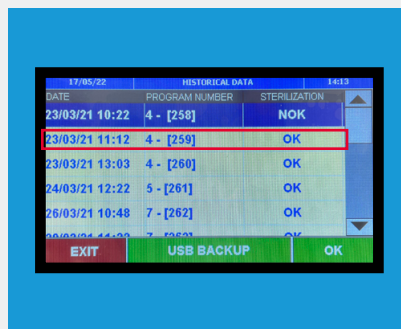
YES: to print tickets in extended mode during a cycle or to print them afterwards.  
NO: to print tickets in simplified mode. This ticket is printed after finishing a cycle and can also be printed afterwards.



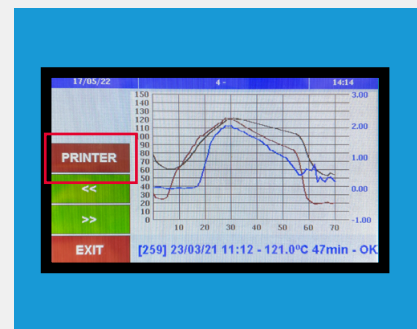
6. Through "INTERVAL PRINTER" option you can define a printing cadence between 1 and 255 seconds, i.e. the time interval in which the printer will print a new line with information about time values when the extended printing mode is selected.



7. Enter the "DATA" menu to view the list of cycles stored in the media preparator.



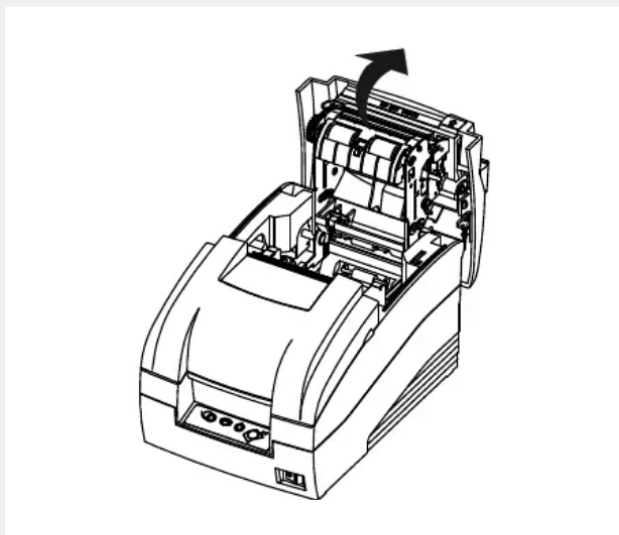
8. Select the preferred cycle to print according to the options selected in printer configuration.



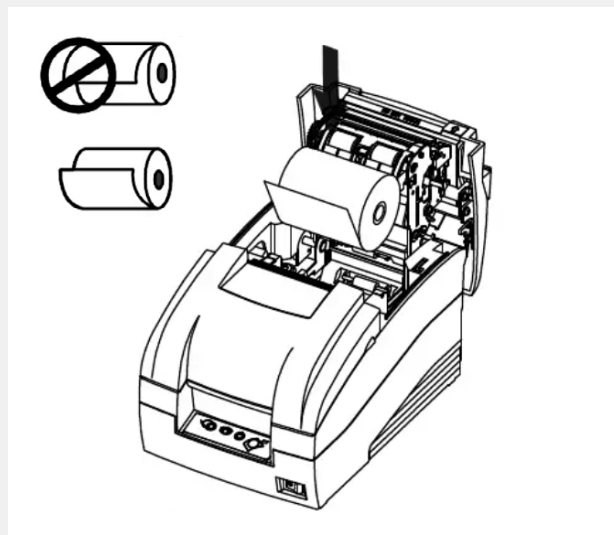
9. Touch the "PRINTER" button to start the printing process.

# External dot matrix printer

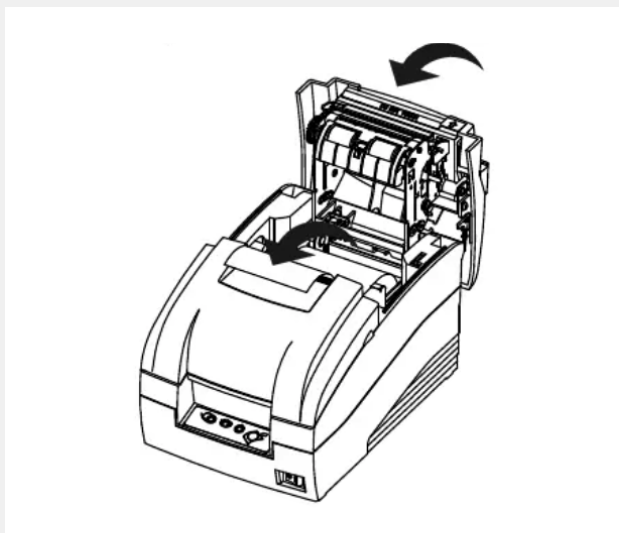
## Paper roll replenishment



1. Open the top cover.



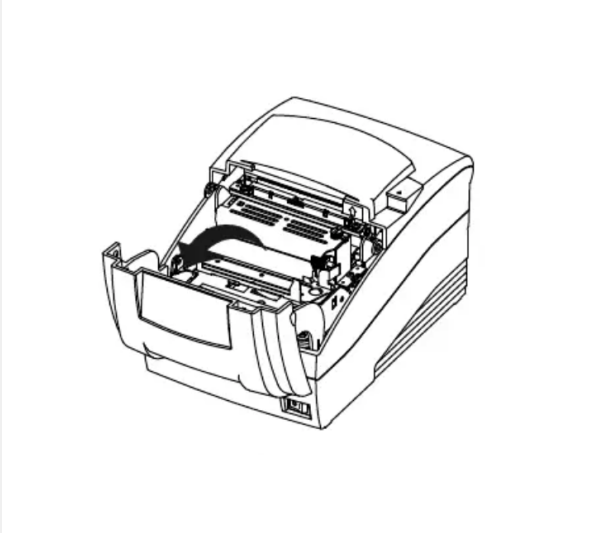
2. Place the paper roll as shown in the picture.



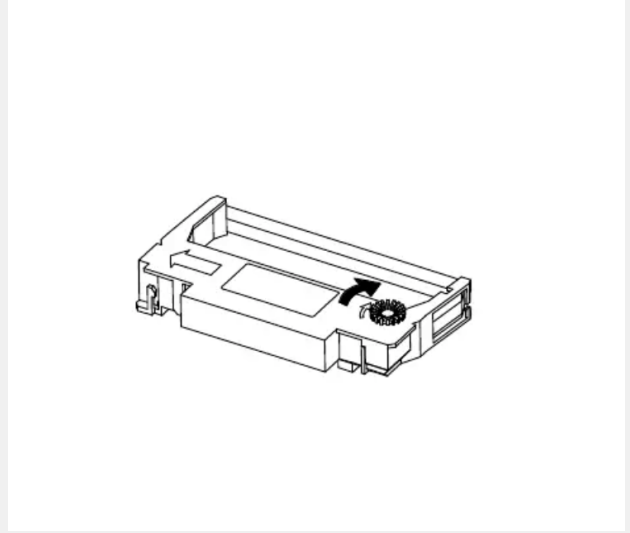
3. Insert the end of the paper into the spool, making sure it is aligned with the edge of the spool. Close the lid and cut off the excess paper.

# External dot matrix printer

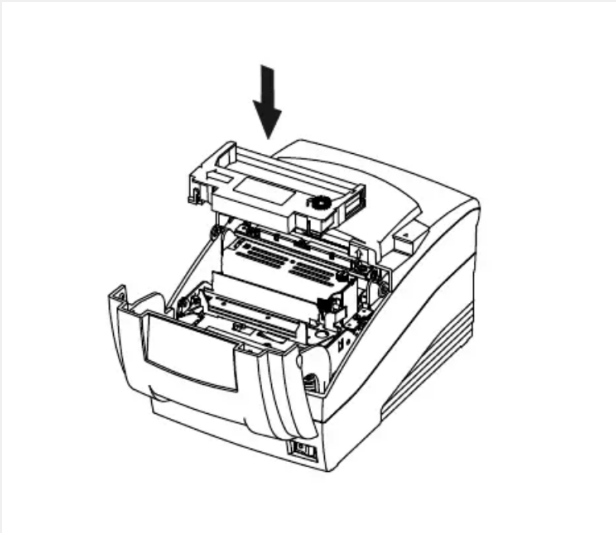
## Ink ribbon replenishment



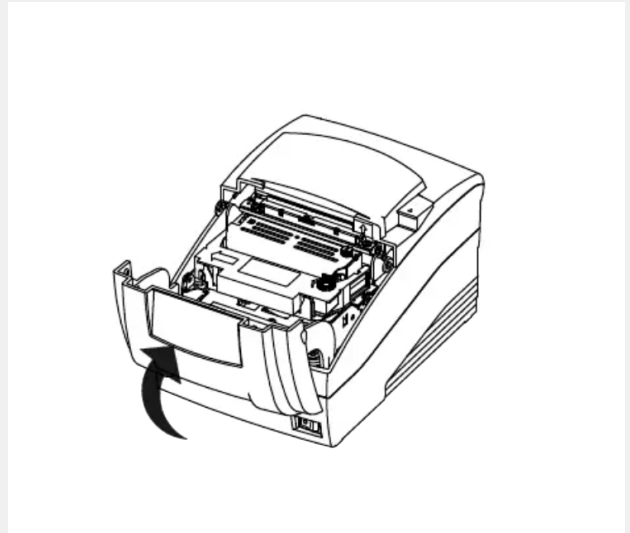
1. Open the cover shown in the picture.



2. Turn the knob five or six times in the direction of the arrow.



3. Insert the ink ribbon and push it until it clicks.



4. Close the front cover.

# External dot matrix printer

## Technical data

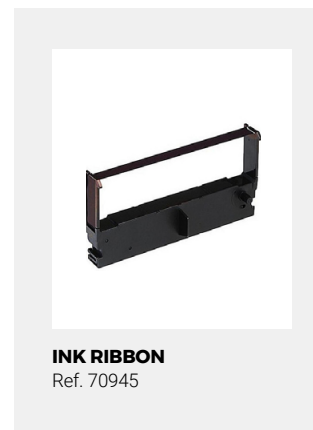
Reference	ITS-MP		
Dimensions L x D x H mm	155 x 240 x 135		
Printing method	impact dot matrix		
Selectable print cadence s	from 10 to 240		
Print quality dot/mm	8		
Resolution dpi	169		
Connection	RS-232		
Sensor	yes; detects the presence of paper		
Required room temperature for proper operation of the printer °C	from 5 to 45		
Compatible paper roll	Paper width mm	from 75,5 to 76,5	
	Paper weight g/m <sup>2</sup>	from 0,05 to 0,08	
	Roll diameter mm	maximum 80	
	Roll length m	1,4	

## Compatibility with media preparators

Reference	ITS-MP
AE-MP Series	✓*
TLV-MP Series	✓

✓: Compatible \*Compatible upon request (factory adaptation required).

## Consumables



The equipment shown is representative; its design may be subject to change as part of manufacturing improvements or adjustments.

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