

## EMBEDDED THERMAL PRINTER IT/MP

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

ACCESSORY



# Embedded thermal printer



## APPLICATION

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



Must be installed at our factory.

## CHARACTERISTICS

- Thermal printing on paper.
- Integrated location in the front control panel of the media preparator for comfortable viewing and handling.
- The configuration of the print type, cadence, or printing of tickets for previous tests is done from the media preparator screen.
- Prints tickets with the most relevant data from each cycle: program name, temperature evolution, date and time, and error messages.
- The consumable paper can be replenished autonomously.
- Energy efficiency function.

## 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.

# Embedded thermal printer

## Printer and ticket



Simplified ticket

```

1  AE-60-MP - 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
    PHAX: -10000.0bar Pmin: 10000.0bar

11 TOTAL TIME: 88 min

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

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

## Extended ticket

```

1  AE-60-MP - 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
    07:06 0 58.1°C 50.3°C HEATING
    07:07 0 60.9°C 51.2°C HEATING
    07:08 0 63.8°C 52.3°C HEATING
    07:09 0 65.4°C 53.6°C HEATING
    ...
    ...
    T.FASE: 0035 min

7  07:390 111.5°C 100.6°C STERIL.
    07:400 113.3°C 102.2°C STERIL.
    07:410 114.8°C 103.7°C STERIL.
    07:420 116.1°C 105.3°C STERIL.
    07:430 113.8°C 107.5°C STERIL.
    07:440 112.6°C 109.3°C STERIL.
    ...
    ...
    T.FASE: 0036 min

8  08:151117 68.3°C 98.2°C COOLING
    08:161117 68.2°C 95.3°C COOLING
    08:171117 64.3°C 92.5°C COOLING
    08:181117 62.6°C 90.0°C COOLING
    08:191117 60.8°C 87.4°C COOLING
    08:201117 57.2°C 82.2°C COOLING
    ...
    ...

9  END OF PROCESS *****

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

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

### A. Status LED:

- Off: printer out of operation.
- On: printer activated.
- ◐ Slow blinking: No paper.
- ◑ Fast blinking: overheating or power supply problems.

### B. Feed button: the printer feeds the paper when this button is pressed.

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.

# Embedded thermal printer

## Printer configuration settings from the microprocessor screen

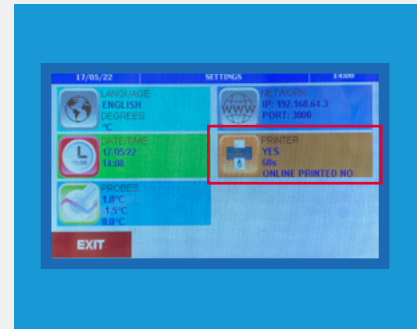
Available languages: Spanish, English, French and Catalan



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

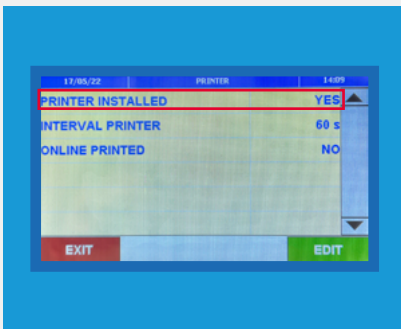


2. Enter the "SETTINGS" menu.

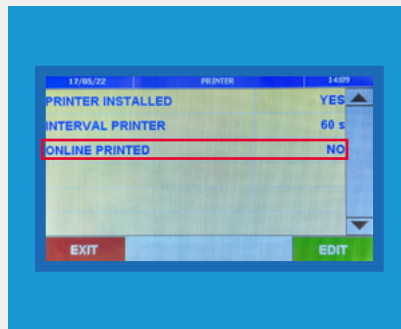


3. Enter the "PRINTER" menu.

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

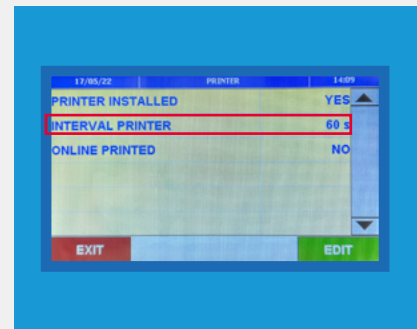


4. Verify that the "PRINTER INSTALLED" option indicates "YES".



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

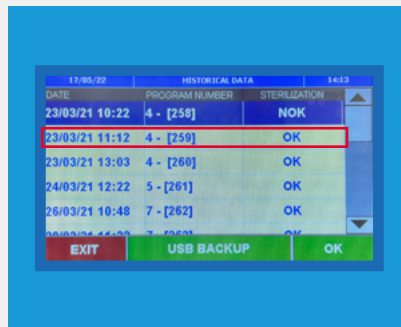
YES: to print tickets in extended mode during a cycle or to print them afterwards.  
NO: to print tickets in simplified mode. This ticket is printed after finishing a cycle and can also be printed afterwards.



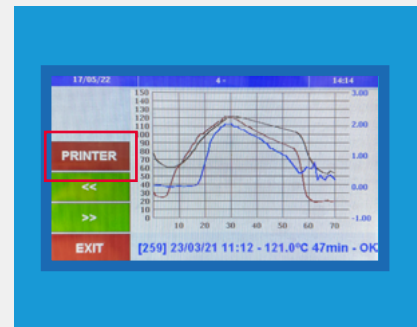
6. Through "INTERVAL PRINTER" option you can define a printing cadence between 1 and 255 seconds, i.e. the time interval in which the printer will print a new line with information about time values when the extended printing mode is selected.



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



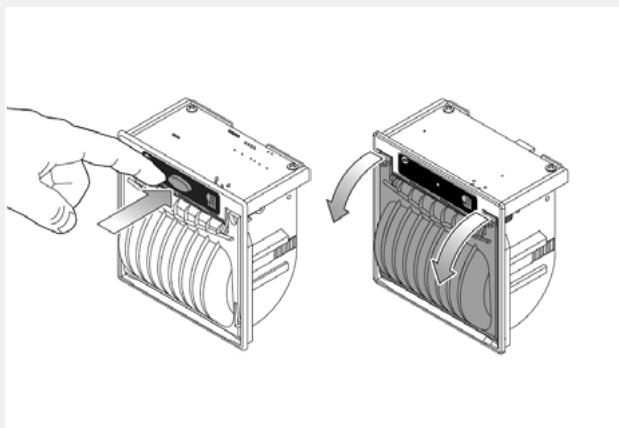
8. Select the preferred cycle to print according to the options selected in printer configuration.



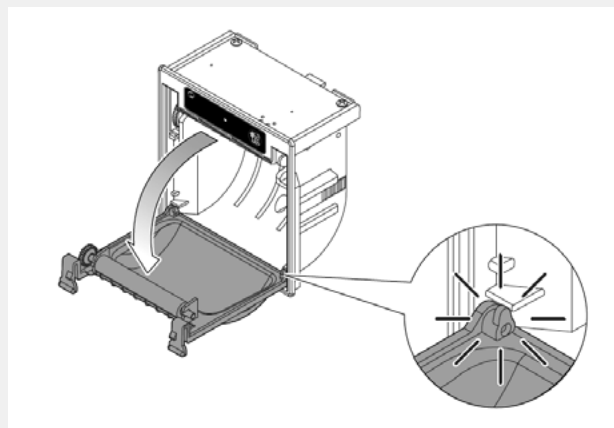
9. Touch the "PRINTER" button to start the printing process.

# Embedded thermal printer

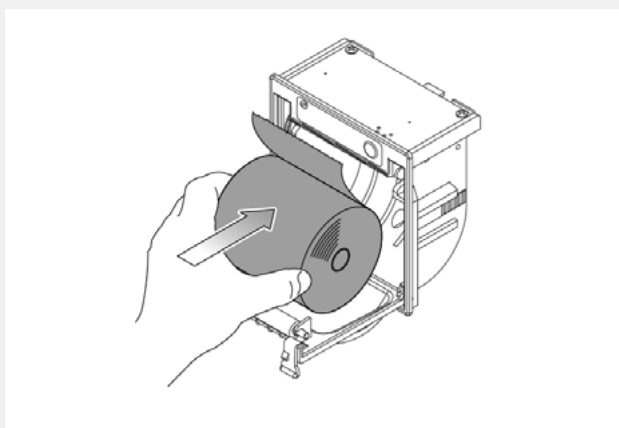
## Paper roll replenishment



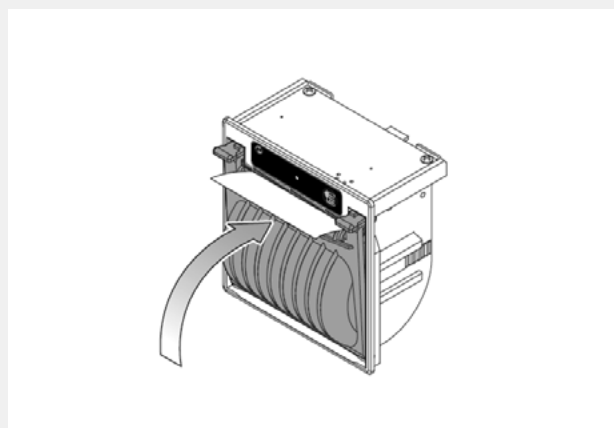
**1.** Open the front cover by pressing the button or by pulling the two clips located on each side.



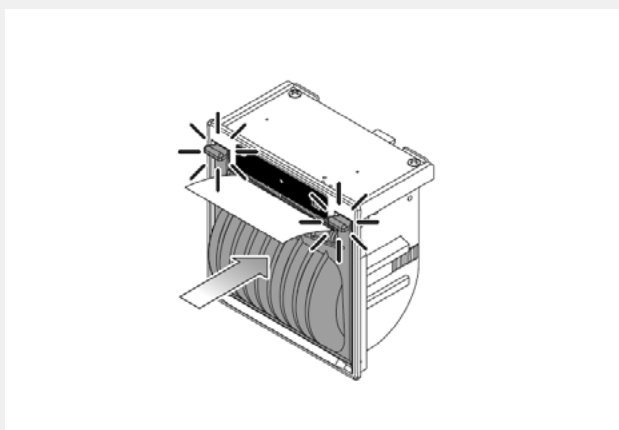
**2.** Lower the front cover until it stops.



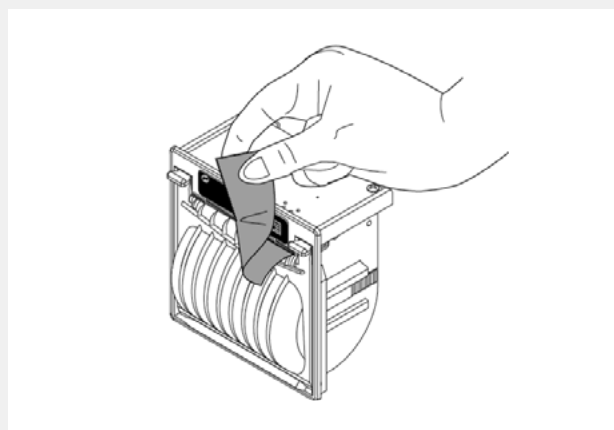
**3.** Place the new roll of paper into the compartment.



**4.** Close the front cover, allowing paper to be visible.



**5.** Close the compartment.



**6.** Cut the excess paper.

# Embedded thermal printer

## Technical data

Reference	IT/MP
Printing method	thermal
Print quality dot/mm	8
Resolution dpi	203
Paper width mm	58
Paper weight g/m <sup>2</sup>	from 55 to 70
Roll diameter mm	50
Roll length m	20
Sensors	head temperature, presence of paper and open lid
Power supply Vcc	4 - 7,5
Required room temperature for proper operation of the printer °C	0 to 50
Dimensions L x H mm	85 x 85
Selectable print cadence s	from 10 to 240

## Consumables

