

INTEGRATED PRINTER

IT/TERRA

PRINTS TICKETS WITH
INFORMATION ABOUT THE
THERMAL PROCESS AND
OUTCOME OF EACH CYCLE

ACCESSORY



Integrated printer



APPLICATION

- + GENERATION OF A TICKET WITH EXTENSIVE OR JUST THE MOST RELEVANT INFORMATION OF EACH THERMAL PROCESS PERFORMED INSIDE THE AUTOCLAVE

Characteristics

- Thermal printer that uses heat transfer on paper.
- Integrated placement on the front control panel for an easy access and visualization.
- The configuration of printing mode, printing cadence or printing of a specific cycle within the cycle history is done through the autoclave screen.
- Prints tickets with extensive information of each cycle: batch number, program name, parameters evolution, time and day and error messages.
- The consumable paper can be replenished autonomously.
- Energy efficiency function.
- It must be factory installed.



Recommended for:

- Fast identification of the thermal process that each batch has been exposed to.
- Situations where the use of a computer with SWTERRA software is not feasible (lack of computer, room conditions, etc.).
- Improving the traceability of experiments or productions.

Possibility to choose 2 printing modes through the autoclave screen:

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

Printer and ticket



Example of a simplified ticket

Example of an extended ticket

```

1 CFS-50V - 39929
2 P12 - CREAM 110
3 TEMP: 110.0° F. 6.0 min

4 CYCLE NUMBER 204

5 DATE RATE: 1min

6 PHASE TIME: 0001 min

13:01 0 22.5°C 10.2°C 0.09bar HEATING
13:02 0 22.6°C 10.3°C 0.32bar HEATING
13:03 0 22.6°C 10.4°C 0.40bar HEATING
13:04 0 23.0°C 10.6°C 0.44bar HEATING
13:05 0 24.0°C 10.6°C 0.49bar HEATING
...
...
7 PHASE TIME: 0050 min

13:51 0 110.6°C 100.2°C 0.87bar STERIL.
13:52 0 110.7°C 100.8°C 0.86bar STERIL.
13:53 0 110.6°C 100.3°C 0.88bar STERIL.
13:54 0 110.9°C 100.4°C 0.86bar STERIL.
13:55 0 110.4°C 100.1°C 0.86bar STERIL.
...
...
8 PHASE TIME: 0004 min

15:15 1071 36.3°C 86.3°C 1.04bar COOLING
15:16 1071 30.8°C 90.9°C 1.13bar COOLING
15:17 1071 28.1°C 93.9°C 1.06bar COOLING
15:18 1071 26.8°C 94.0°C 0.95bar COOLING
15:19 1071 26.5°C 92.4°C 1.13bar COOLING
...
...
9 END OF PROCESS *****
10 MAX. TEMP: 111.3°C Min. Temp: 0.0°C
    PMAX: 0.9 bar Pmin: 0.9 bar

11 TOTAL TIME: 156 min

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

13 DATE - HOUR 05/12/2022 15:36
    
```

A. Status LED:

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

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

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

Adjustment of printer settings through the autoclave screen

Available languages: Spanish, English, French and Catalan.



1. On the autoclave screen, enter the "SETUP" menu.

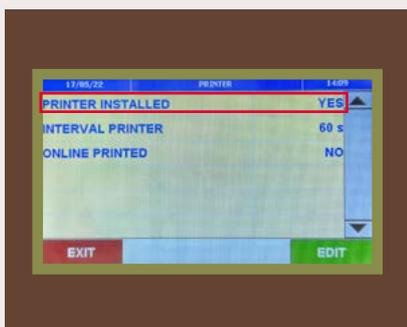


2. Enter the "SETTINGS" menu.

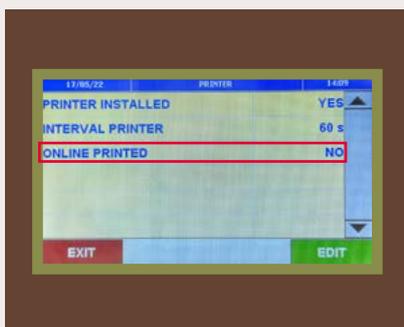


3. Enter the "PRINTER" menu.

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

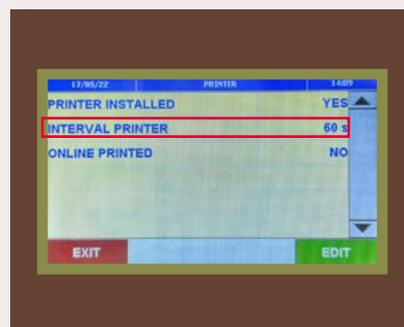


4. When a printer is installed, the "PRINTER INSTALLED" option has to be edited and set to "YES".



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

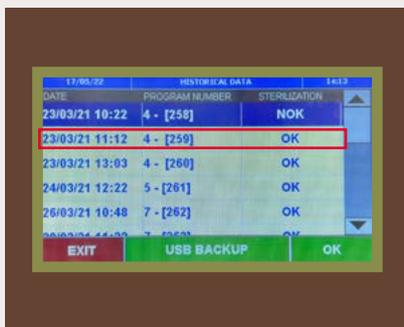
YES: to print tickets in extended mode during a cycle or to print them afterwards.
NO: to print tickets in simplified mode. This ticket is printed after finishing a cycle and can also be printed afterwards.



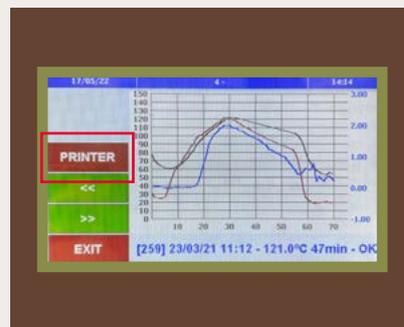
6. Through "INTERVAL PRINTER" option you can define a printing cadence between 1 and 255 seconds, i.e. the time interval in which the printer will print a new line with information about time values when the extended printing mode is selected.



7. Enter the "DATA" menu to access the list of cycles saved in the autoclave:

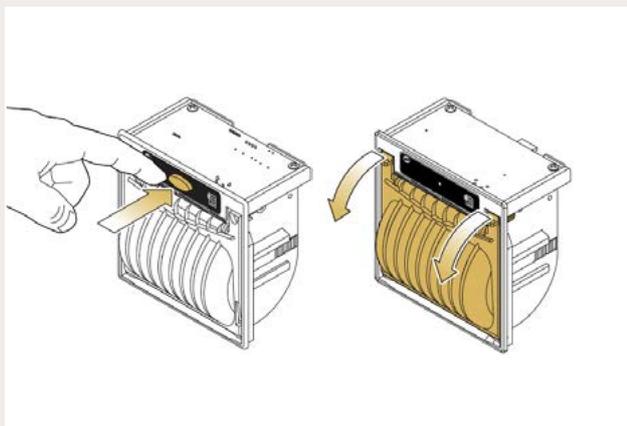


8. Select the preferred cycle to print according to the options selected in printer configuration.

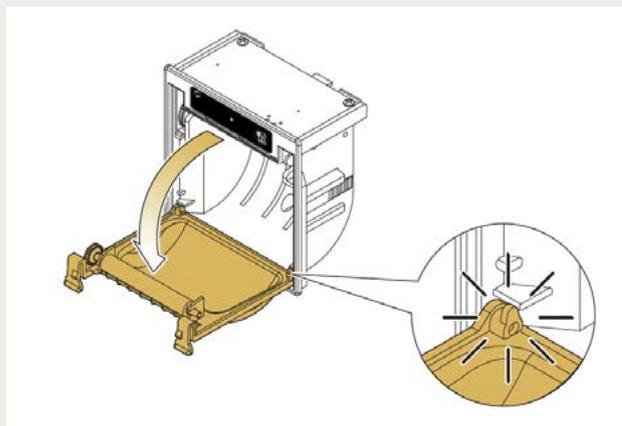


9. Touch the "PRINTER" button to start the printing process.

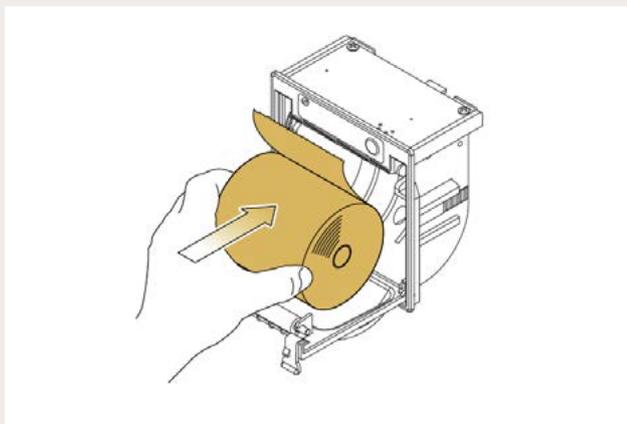
Paper roll replenishment



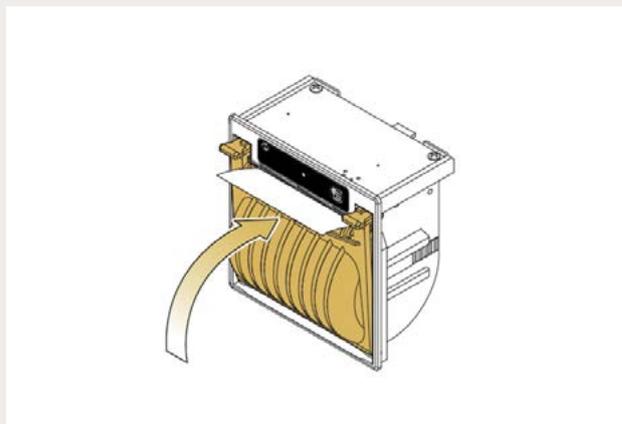
1. Open the front cover by pressing the button or by pulling the two clips located on each side.



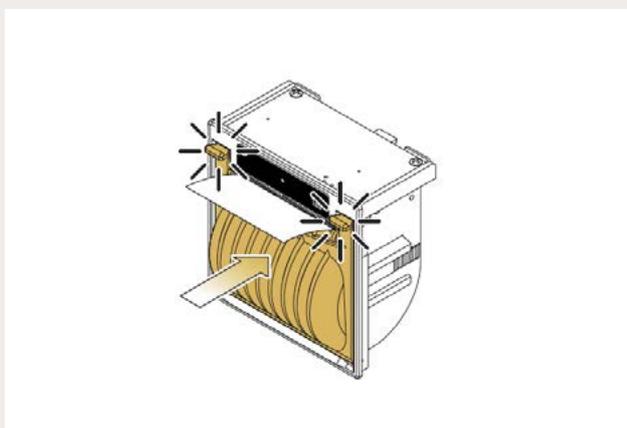
2. Lower the front cover until it stops.



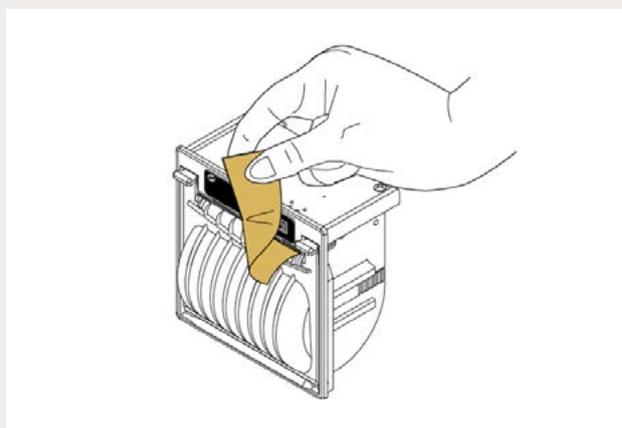
3. Place the new roll of paper into the compartment.



4. Close the front cover while allowing paper to be visible.



5. Close the compartment.



6. Cut the excess paper

Technical Data

Reference	IT/TERRA
Printing method	Thermal
Print quality dot/mm	8
Resolution dpi	203
Paper width mm	58
Paper weight g/m ²	from 55 to 70
Roll diameter mm	50
Sensors	Temperature of printer head, paper detection, open cover
Power supply Vdc	4-7.5 (9-48 Vdc with optional connector)
Required room temperature for proper operation of the printer °C	0 to 50
Dimensions L x H mm	85 x 85

Consumables



+ info

**CLICK!
VISIT OUR
CHANNEL**

Find out more information about our autoclaves on our **Youtube Channel**

