OPTIKA®
BALANCES
ITALY

INSTRUCTION MANUAL

Models
CNS02

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CE

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1 Operation: T Series

Lower basin whit Anti-ventilation cylinder

Extractor

Thermometer Kit

1. Position the lower basin whit anti-ventilation cylinder and calibration kit.

1. 15 poles M/F cable for connection balance-heater

2. Balance power supply: **Cable VDE**

1. Connect the heater to the balance via cable 15-pin M / F, insert the cable into the two connectors on the rear of the instrument as shown in the figure.

2. Insert the VDE cable in the power connector on the back of the instrument

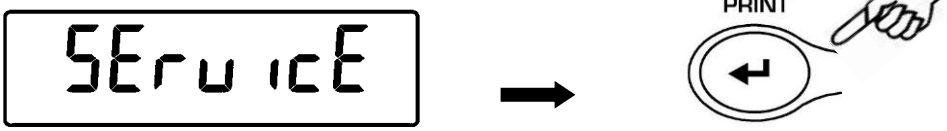
N.B. Verify that the power supply indicated on the instrument nameplate matches the one in use in the country where you are installing.

3. Then connect the VDE cord to the power outlet located near the instrument. Do not use non-compliant with current regulations cables / extensions.

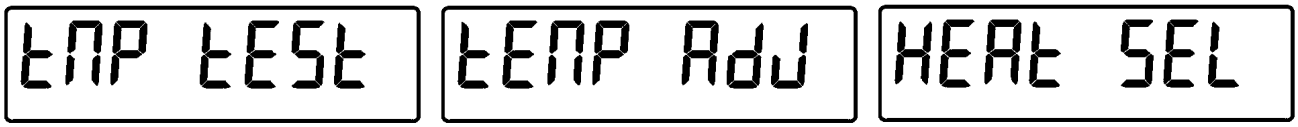
2 Service menu selection

To access the service menu from the weighing condition of the display:

1. From zero condition on display, press and keep pressed the **MENU** button until to buzzer sound off, then release the button. The message "**unitS**" is displayed, then press **MENU** button until the message "**Service**" is displayed and confirm by pressing the **PRINT** button.



2. In this way you will access the service menu. Select the desired function and press the ENTER key to confirm the selection.



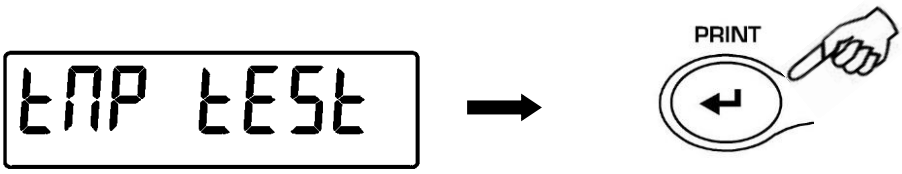
TEST VALUE TEMPERATURE	TERMOMETER CALIBRATION	LAMP SELECT

2.1 Temperature test

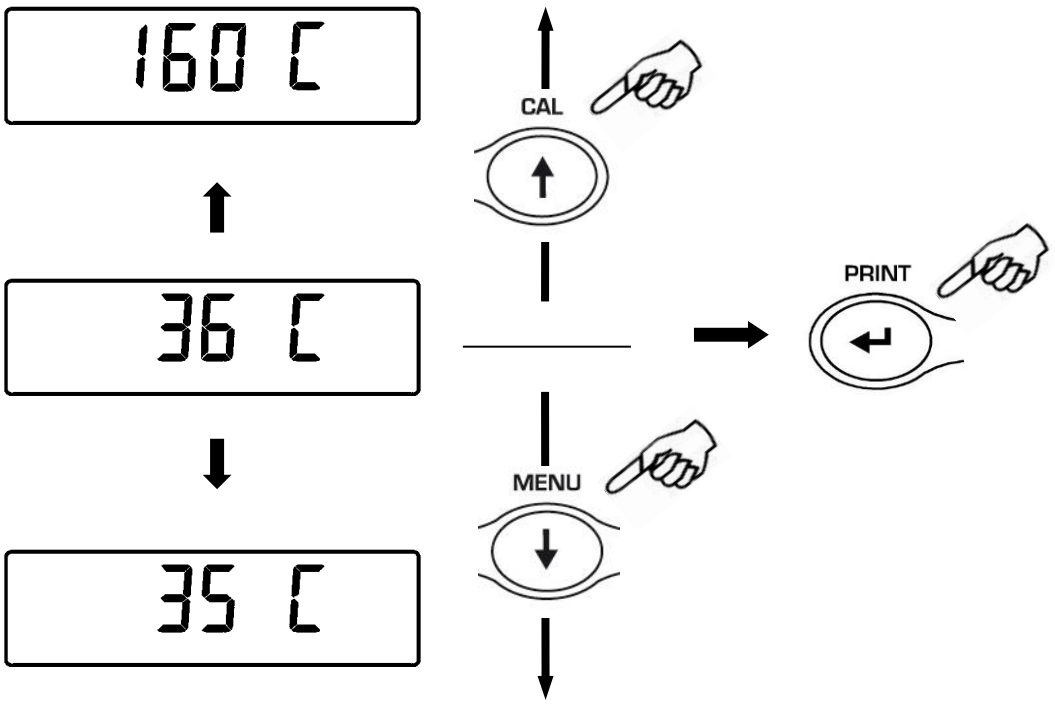
This function allows you to check the temperature value indicated by the device.

1. Check the lower basin and the kit thermometer.

2. Enter the service menu (as described in Chapter 2), and then press the **MENU** button until "temp test" is displayed. Then confirm with the **ENTER** button**.**



3. It will now be possible to set the temperature value desired for the test. The first value displayed of 35°C is the minimum value. Use the **MENU** and **CAL** buttons to increase and decrease the value. Confirm the value by pressing the **ENTER** button.



4. The heating cycle will now start and the current temperature value will be shown on the display. The H symbol indicates heater start-up.

5. After reaching the set value, leave the heater on for about 15 minutes and then compare the value shown on the display with the one detected by the external thermometer. (In case the temperatures do not coincide with one another, the thermometer can be recalibrated with the procedure described in Chapter 2.2).

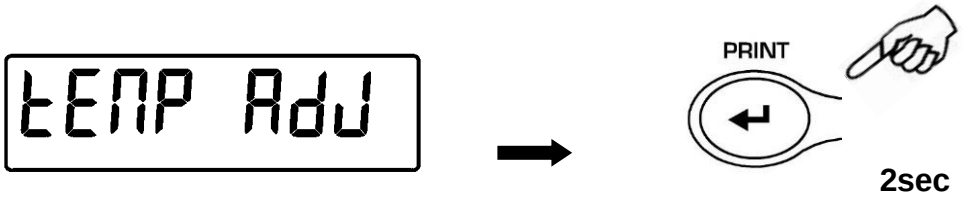
6. Press the **ON/OFF** button to end and exit from the test function.

2.2 Termometer calibration

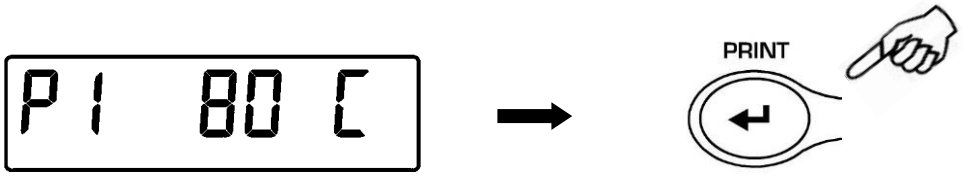
This function allows you to linearize the thermometer through the acquisition of two temperature values.

1. Check the lower basin and the kit thermometer.

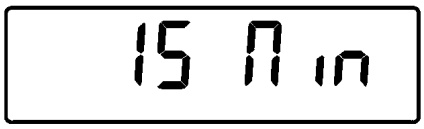
2. Enter the service menu (as described in Chapter 2) and then press the **MENU** button until “temp Adj” is displayed. Then confirm with the **ENTER** button.



3. The first calibration point, the default value of which is 80 °C, will be displayed. (To delete the previously stored calibration press and hold the **PRINT** key until the acoustic alarm) The temperature value can be modified by using the **CAL** button to increase and **MENU** to decrease (the minimum value that can be set is 50 °C and the maximum is 130°C). Then confirm by pressing the **ENTER** button.

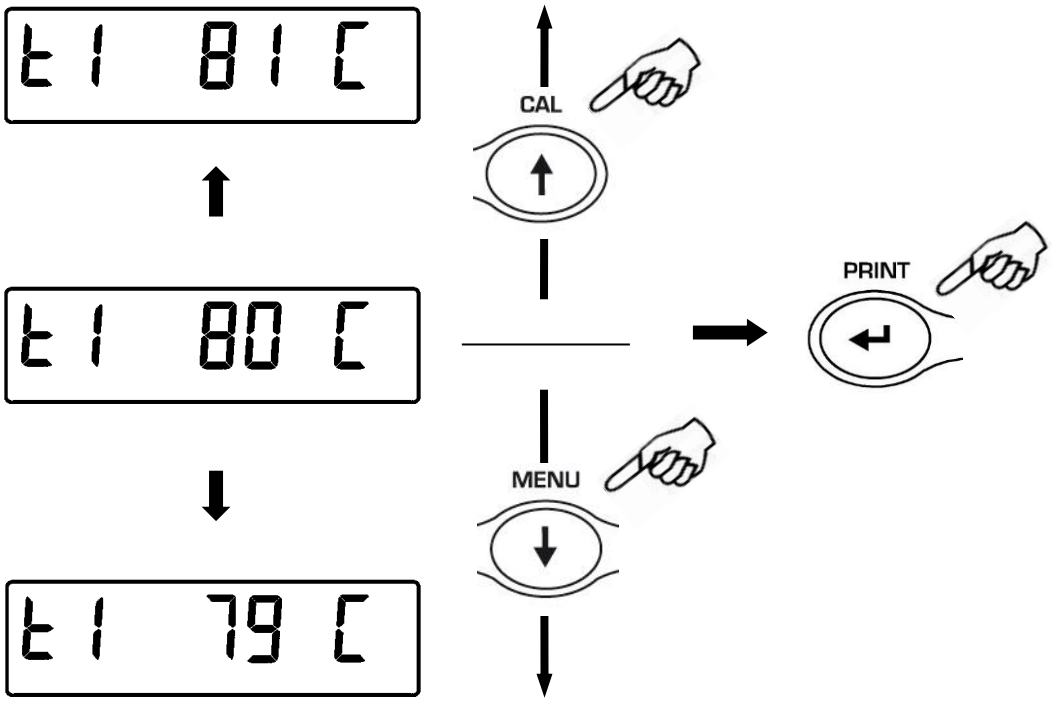


4. The heating cycle will begin and the countdown of the minutes will be shown on the display.



5. A sound will be made at the end of the cycle, open the cover of the oven and immediately read the temperature on the thermometeand. The scale display will show the set value for the calibration:

6. Correct any error by using the **MENU** and **CAL** to increase or decrease the temperature.



7. Then press the **ENTER** button to confirm the value.
8. The second calibration point will now be displayed.

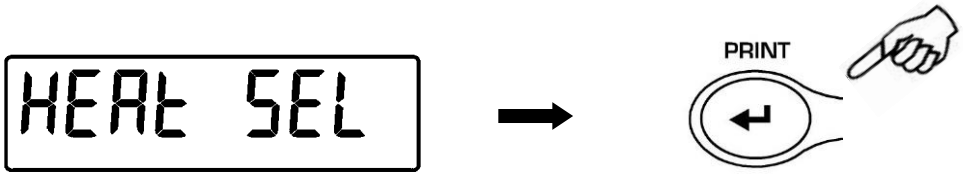
9. The value can be modified by using the **CAL** and **MENU** buttons to increase or decrease it (the minimum value that can be set must be at least 30 °C greater than the first point, and the maximum value accepted is 160°C).
10. Press the **ENTER** button to confirm and initiate the heating cycle for 15 minutes.
11. A sound will be made at the end of the cycle, open the cover of the oven and immediately read the temperature on the thermometeand. The scale display will show the set value for the calibration:

12. Correct any error by using the **MENU** and **CAL** to increase or decrease the temperature.
13. Then press the **ENTER** button to confirm the value.
14. The new data will be stored and the device will return to the **Measure** menu.

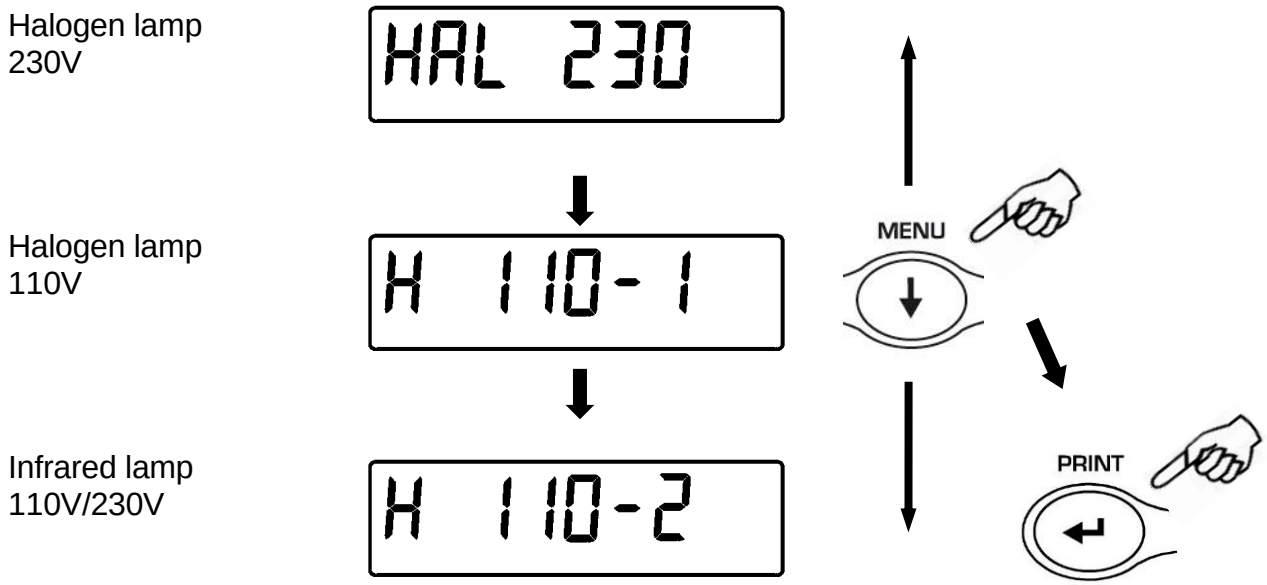
2.3 Lamp set-up

This function allows you to select the type of lamp installed.

1. Enter the service menu (as described in Chapter 2) and then press the **MENU** button until displaying “Heat SEL”. Then confirm with the **ENTER** button.



2. The type of lamp currently set will be displayed. Use the **MENU** button to scroll through the different models of lamps that can be selected.



3. After having selected the desired type of lamp, press the **ENTER** button to confirm.

4. Press the on/off button to exit from the menu.

3 Operation: TG Series

Lower basin whit Anti-ventilation cylinder

Extractor

Thermometer Kit

2. Position the lower basin whit anti-ventilation cylinder and calibration kit.

1. 15 poles M/F cable for connection balance-heater

2. Balance power supply: **Cable VDE**

1. Connect the heater to the balance via cable 15-pin M / F, insert the cable into the two connectors on the rear of the instrument as shown in the figure.

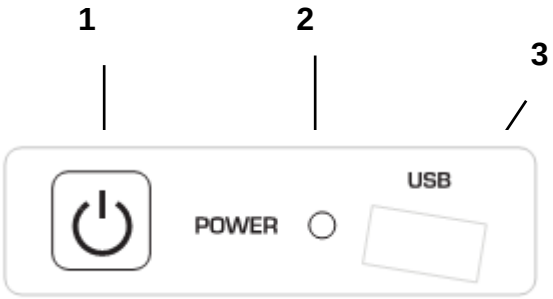
2. Insert the VDE cable in the power connector on the back of the instrument

N.B. Verify that the power supply indicated on the instrument nameplate matches the one in use in the country where you are installing.

3. Then connect the VDE cord to the power outlet located near the instrument. Do not use non-compliant with current regulations cables / extensions.

After inserting the power cord, the device will start automatically without having to press the power key.
Use the power key to switch off the device and restart the system when the power cord is permanently attached.

The keyboard has a switching on and off key (1), an operating indicator led (2) and a USB port (3).

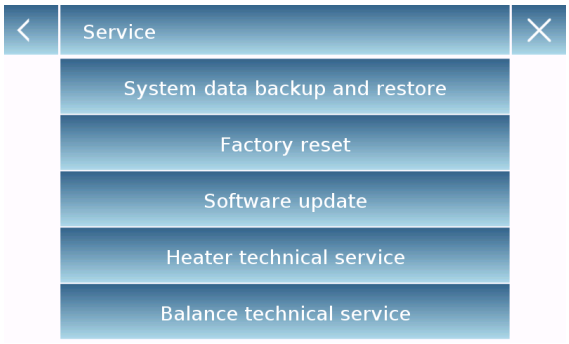


N.B. The phase of switching on and off of the device requires about 20 seconds; during this period, the display will remain switched off.
When powering, wait until you display the home screen before performing other operations.
While in the switching off phase, wait until the green LED turns off before removing the power plug if necessary.

4 Service menu selection

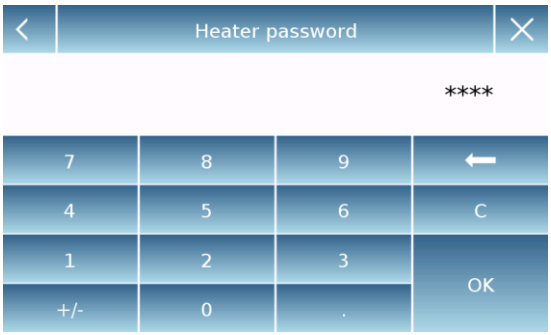
To access the service menu from the weighing condition of the display:

1. Select the function in the options menu **“Settings”** then the function **“Service”**

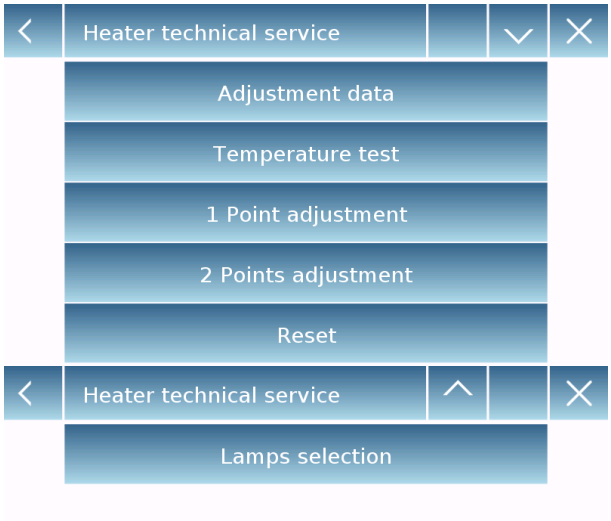


2. This will be accessed at the service menu. Select the function **Heater technical service**

This feature is only accessible with a password: 1122, once typed correctly, press **“OK”**.

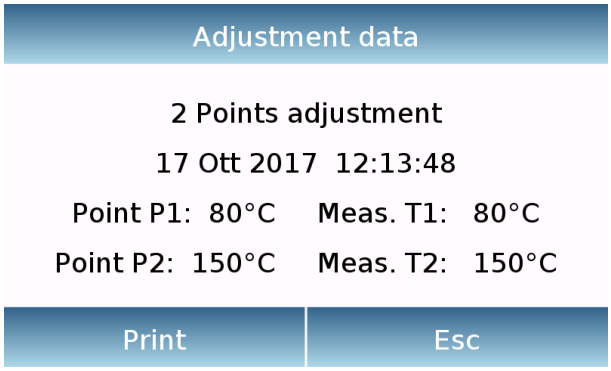


3. This is done in the Heater Technical Service menu with the following functions available:



- Adjustment data
- Temperature test
- 1 Point adjustment
- 2 Points adjustment
- Reset
- Lamps selection

4.1 Adjustment data



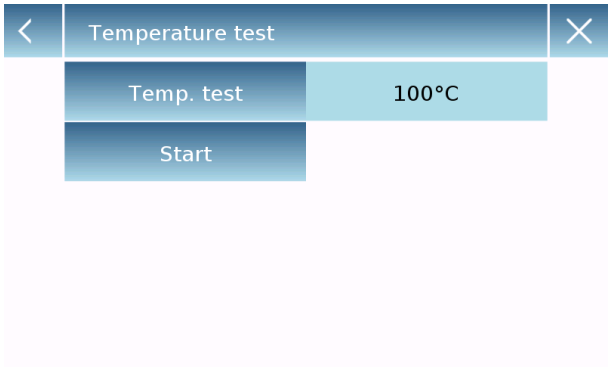
- **Adjustment data:**
  You can select this function to view and print thermometer calibration data.

On the screen you can check:
- the number of points with which calibration 1 or 2 was performed.
- the date and time of the calibration
- the value of the calibration points
- the actual measured value.

4.2 Temperature test

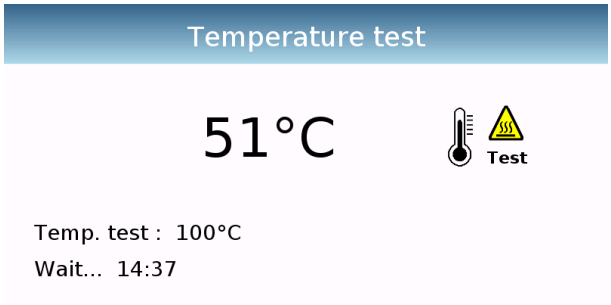
This function allows to verify the temperature value indicated by the instrument

Check the presence of the pan with the Thermometer Kit.



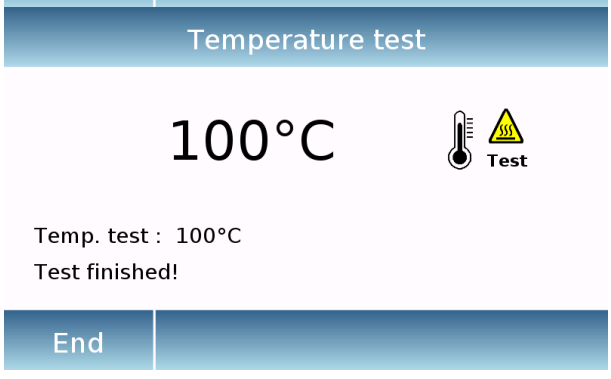
- **Temperature test:**
  This function allows you to enter a temperature value for which you want to perform a check.

Tap the "Temp test" button to set the temperature value. Then press "Start" to test.



After starting the Test, wait for the timer to be automatically set to 15 minutes to reset. A beep will sound, open the heater and compare the temperature value displayed on the display with that detected by the thermometer inside.

Tap the "Abort" button to cancel the test.

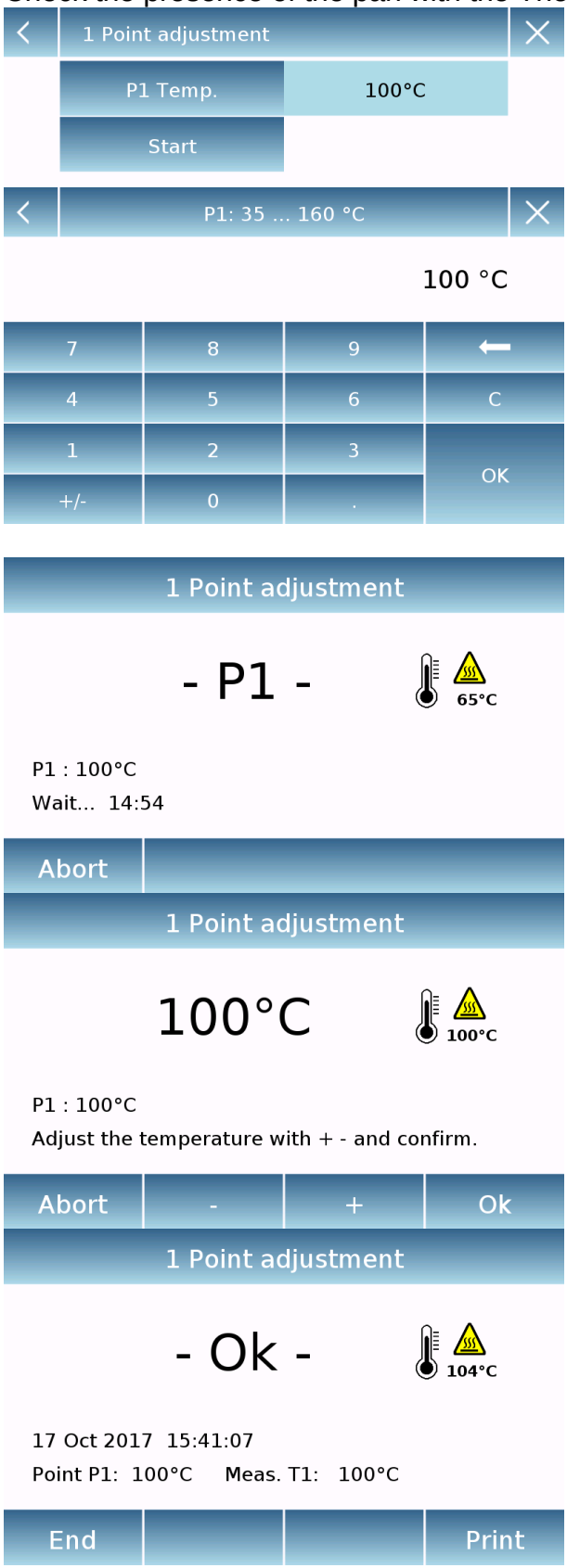


Once the test is completed press "End" to return to the menu.

4.3 1 Point adjustment

This function allows the temperature linearization of the thermometer to be obtained through the acquisition of a temperature value.

Check the presence of the pan with the Thermometer Kit.



The default setting point (P1 Temp) is 100 ° C.

It can be changed from 35 ° C to 160 ° C.

Press **"P1 Temp"** to change the calibration values.

Press **"Start"** to start the adjustment.

The heating cycle will start and the minute countdown will be displayed on the display

At the end of the cycle, an acoustic signal will be output to open the oven cover and immediately read the temperature value on the thermometer.

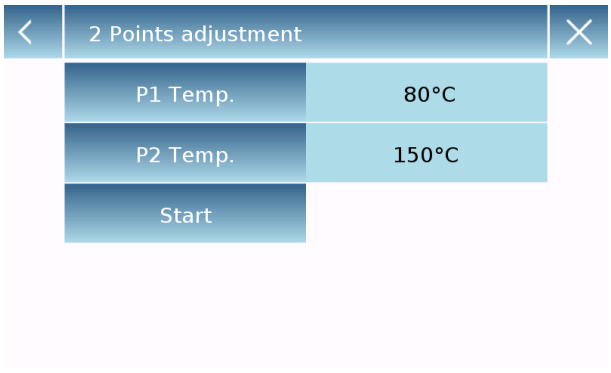
Correct the error using the **"+"** or **"-"** keys to correct the temperature. Once the correct temperature has been reached, press **"OK"** to confirm.

Press **"End"** to exit the adjustment function or **"Print"** to print the thermometer calibration data.

4.4 2 Points adjustment

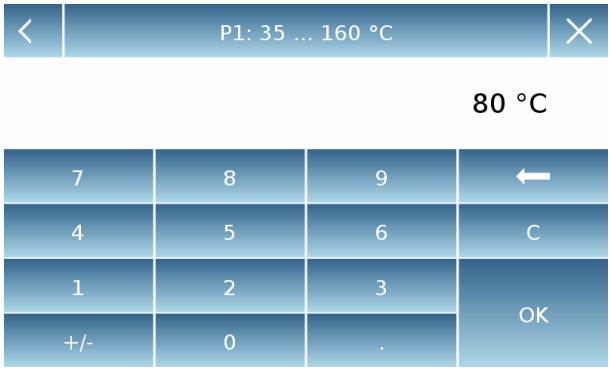
This function enables the thermometer linearization to be obtained by the acquisition of two temperature values.

Check the presence of the pan with the Thermometer Kit.



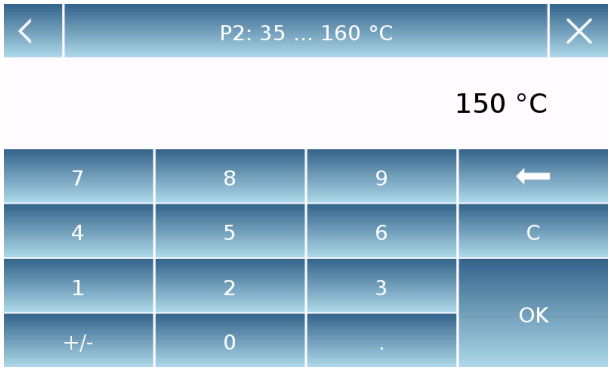
The default setting point (P1 Temp) is 80 °C.

The second adjustment point (P2 Temp) is 150 °C.

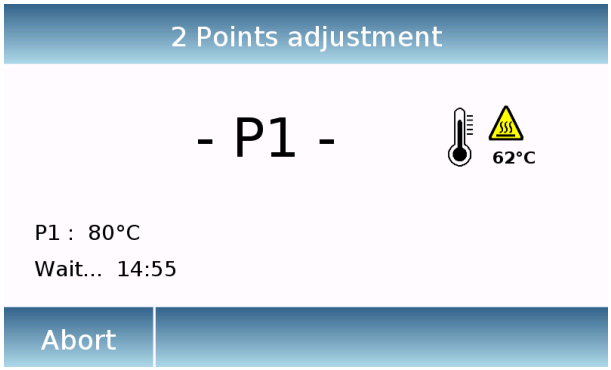


Press **"P1 Temp."** to change the calibration values.
Press **"P2 Temp."** To change the calibration values.

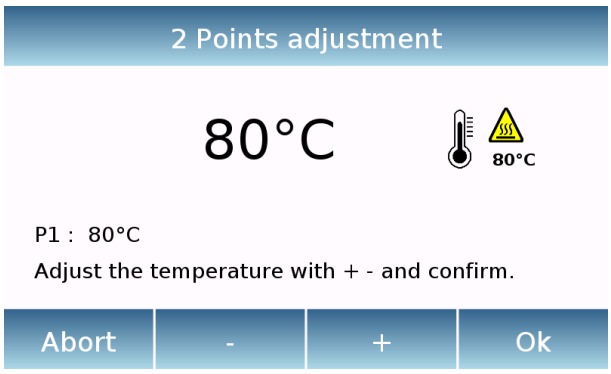
The two calibration values of the thermometer can be modified while maintaining the second point with a value higher than the first of at least 30 ° C.



Press **"Start"** to start the first adjustment.

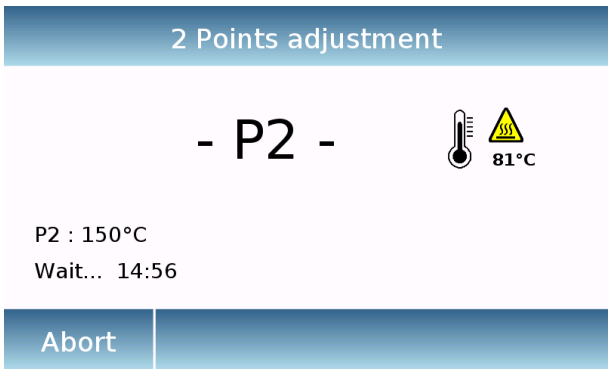


The first heating cycle will start, and the countdown will be displayed on the display.



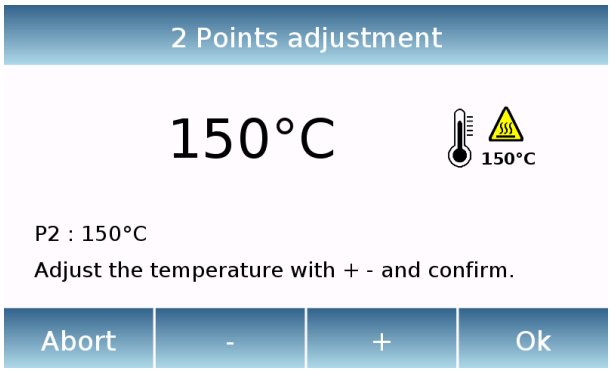
At the end of the first cycle, an acoustic signal will be output to open the oven cover and immediately read the temperature value on the thermometer.

Correct the error using the **"+"** or **"-"** keys to correct the temperature. Once the correct temperature has been reached, press **"OK"** to confirm.

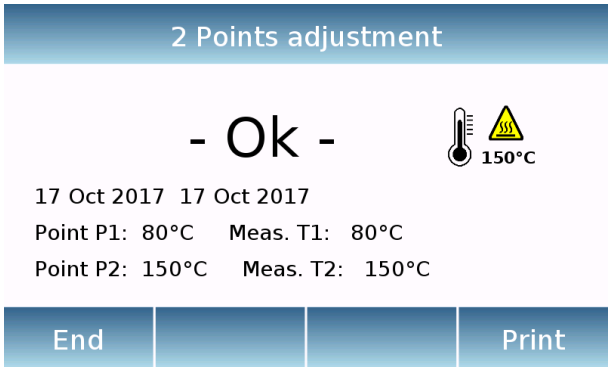


The second calibration point will start automatically.

At the end of the cycle, an acoustic signal will be output to open the oven cover and immediately read the temperature value on the thermometer.

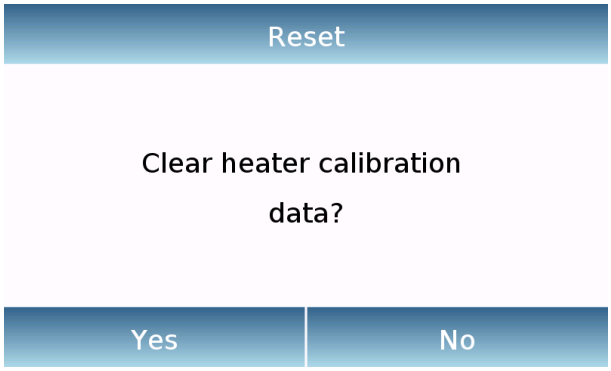


Correct the error using the **"+"** or **"-"** keys to correct the temperature. Once the correct temperature has been reached, press **"OK"** to confirm.



Press **"End"** to exit the adjustment function or **"Print"** to print the thermometer calibration data.

4.5 Reset



You can reset to cancel the calibration of the heater.

Tap the **"Reset"** button, confirm by touching the **"Yes"** button, or cancel the operation by tapping the **"No"** button.

4.6 Lamps selection

The function of the lamp selection is accessible only by the qualified technical personnel.

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