Calibration Kit
Thermometer Thermobalance

Europen Catalogue Numbers:

611-3248 Calibration Kit Thermometer Thermobalance

User Manual

Versione 1 Manuale 14/04/15

The kit is compatible with thermobalances →
ECN: 611-2317, 611-2318, 611-3232

Soft. Th_3.01

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Country of origin

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Intended use

Calibration Thermometer oven of a thermobalance

Index

1 OPERATION....3

2 SERVICE MENU SELECTION....4

2.1 TEMPERATURE TEST....4
2.2 TERMOMETER CALIBRATION....6
2.3 LAMP SET-UP....8

3 TECHNICAL SERVICE....9

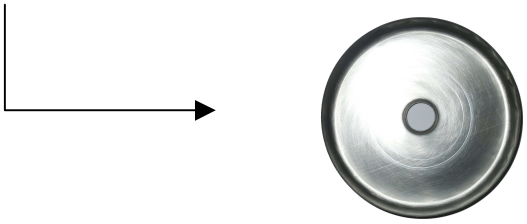
4 WARRANTY....9

5 COMPLIANCE WITH LOCAL LAWS AND REGULATIONS....9

6 EQUIPMENT DISPOSAL....10

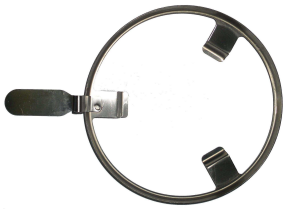
1 Operation

Lower basin whit Anti-ventilation cylinder





Extractor



Thermometer Kit



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



1. 15 pole M/F balance heater connection cable

2. Heater power supply



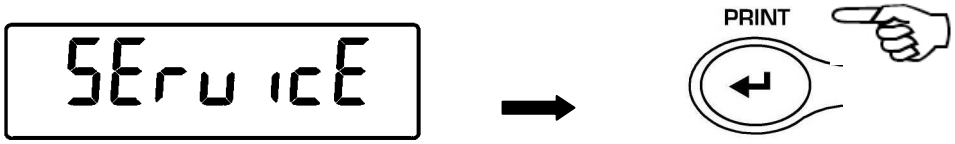
3. Balance power supply

2. Connect the heater to the balance through the 15 pole M/F cable
3. Plug in the VDE cable for the heater power supply.
4. Plug in the balance power supply connector.

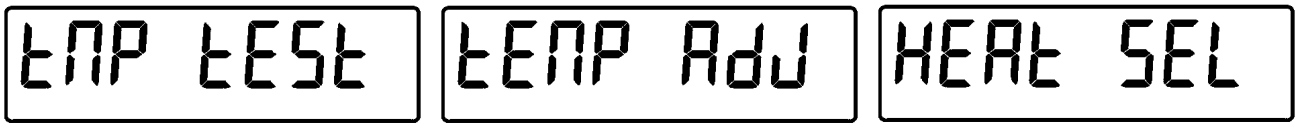
2 Service menu selection

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.



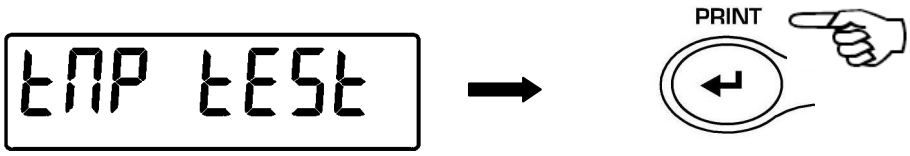
TEST VALUE TEMPERATURE	TERMOMETER CALIBRATION	LAMP SELECT

2.1 Temperature test

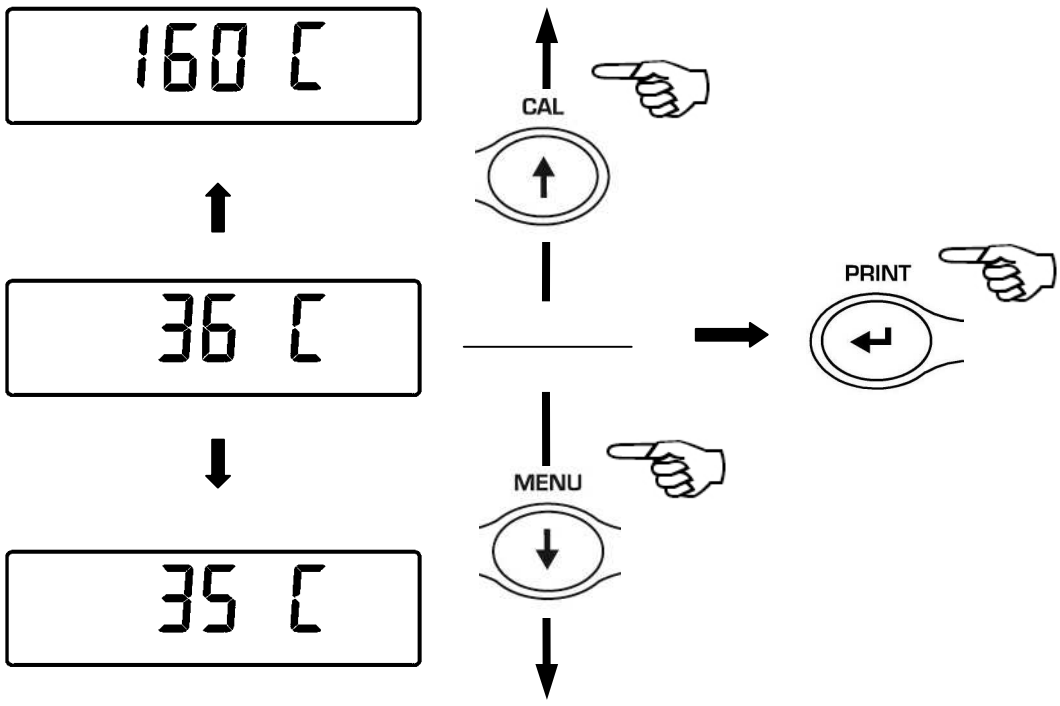
This function allows you to check the temperature value indicated by the device.

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).

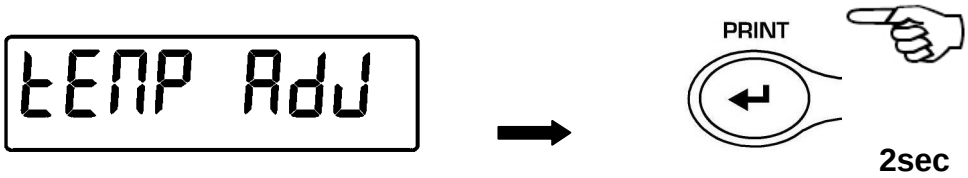
6. Press the **ON/OFF** button to end and exit from the test function.

2.2 Termometer calibration

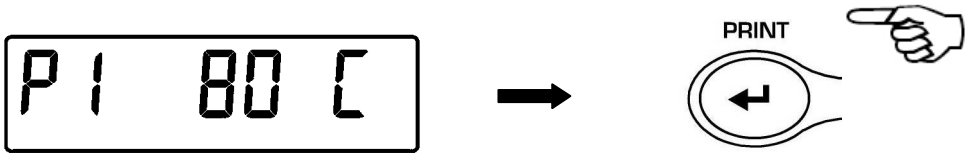
This function allows you to linearize the thermometer through the acquisition of two temperature values.

1. Check the lower basin and the kit thermometer.

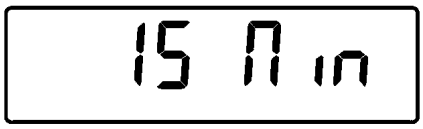
2. Enter the service menu (as described in Chapter 2) and then press the **MENU** button until “temp Adj” is displayed. Then confirm with the **ENTER** button.



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.



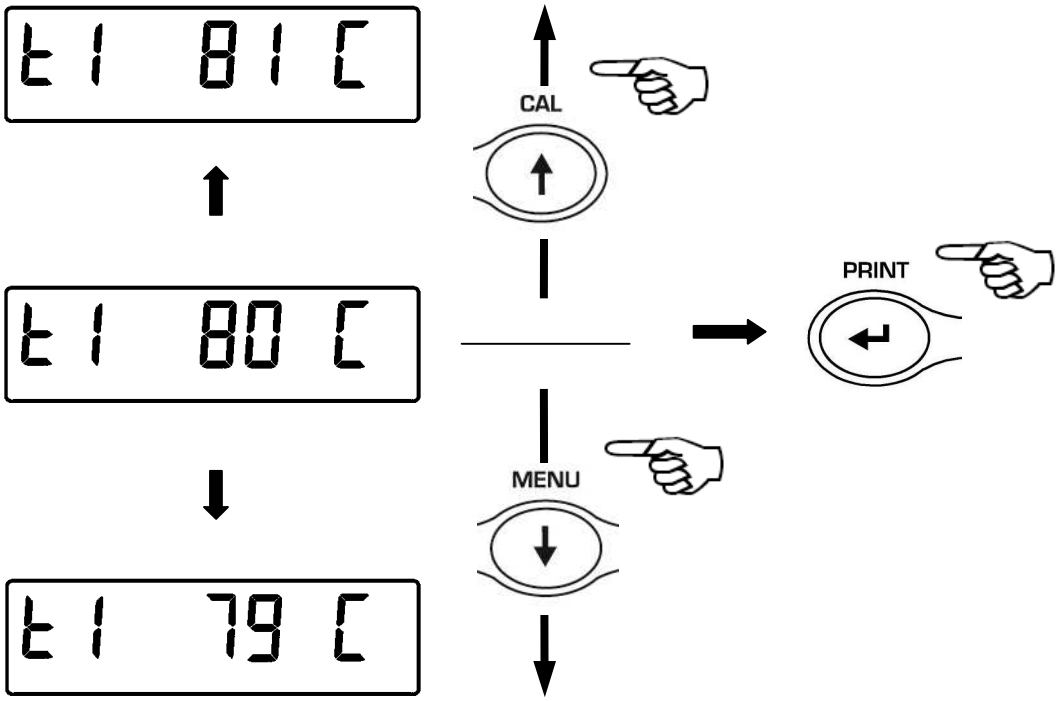
4. The heating cycle will begin and the countdown of the minutes will be shown on the display.



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:



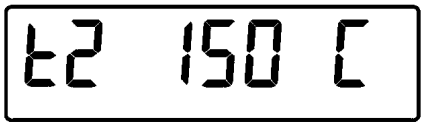
6. Correct any error by using the **MENU** and **CAL** to increase or decrease the temperature.



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 :

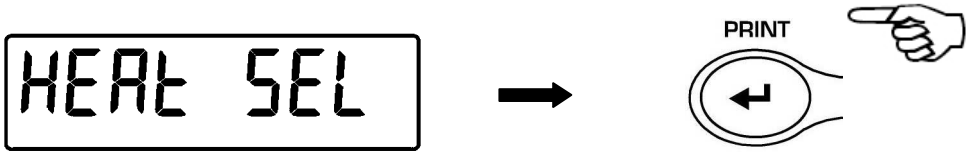


12. Correct any error by using the **MENU** and **CAL** to increase or decrease the temperature.
13. Then press the **ENTER** button to confirm the value.
14. The new data will be stored and the device will return to the **Measure** menu.

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.

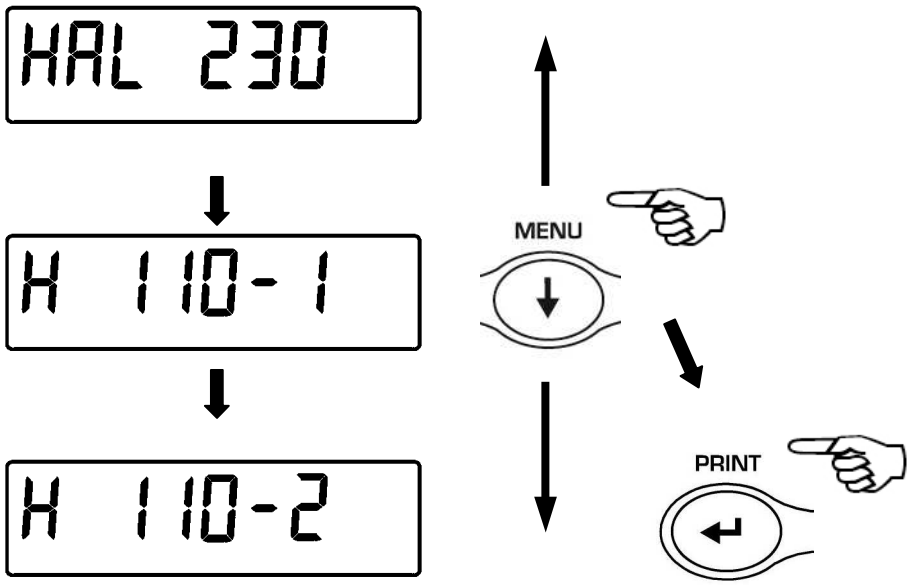


2. The type of lamp currently set will be displayed. Use the **MENU** button to scroll through the different models of lamps that can be selected.

Halogen lamp
230V

Halogen lamp
110V

Infrared lamp
110V/230V



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 Technical service

Web Resources

Visit the VWR's website at **www.vwr.com** for:
• Complete technical service contact information
• Access to VWR's Online Catalogue, and information about accessories and related products
• Additional product information and special offers
Contact us For information or technical assistance contact your local VWR representative or visit. **www.vwr.com**.

4 Warranty

VWR International warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of delivery. If a defect is present, VWR will, at its option and cost, repair, replace, or refund the purchase price of this product to the customer, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear. If the required maintenance and inspection services are not performed according to the manuals and any local regulations, such warranty turns invalid, except to the extent, the defect of the product is not due to such non-performance.

Items being returned must be insured by the customer against possible damage or loss. This warranty shall be limited to the aforementioned remedies. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

5 Compliance with local laws and regulations

The customer is responsible for applying for and obtaining the necessary regulatory approvals or other authorizations necessary to run or use the Product in its local environment. VWR will not be held liable for any related omission or for not obtaining the required approval or authorization, unless any refusal is due to a defect of the product.

6 Equipment Disposal



This equipment is marked with the crossed out wheeled bin symbol to indicate that this equipment must not be disposed of with unsorted waste.
Instead it's your responsibility to correctly dispose of your equipment at lifecycle -end by handling it over to an authorized facility for separate collection and recycling. It's also your responsibility to decontaminate the equipment in case of biological, chemical and/or radiological contamination, so as to protect from health hazards the persons involved in the disposal and recycling of the equipment.
For more information about where you can drop off your waste of equipment, please contact your local dealer from whom you originally purchased this equipment.

By doing so, you will help to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.

Thank you

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