

GRAM  **Core**

TH



ELECTRONIC PRECISION BALANCES
(LCD, GRAPHIC, TOUCHSCREEN DISPLAY)

QUICK GUIDE

1 - Safety instructions and warnings



WARNING:

Please read these installation and operating instructions carefully before starting to use your new scale. Any use of the device other than that specified in this manual no longer guarantees the safety of the product. Store away the instruction manual.

Intended use

The TH moisture analyzer is used for the fast and precise analysis of liquid, pasty and solid material moisture based on the thermogravimetric method.

Observe the following instructions for safe and trouble-free operation of the moisture analyzer:



- Use the moisture analyzer exclusively for the determination of sample moisture. Any improper use of the appliance may endanger personal safety and cause damage to the device or other objects.
- Do not use the device in areas where there is a risk of explosion; also operate the device only in compliance with the environmental conditions listed in this instruction manual.
- Do not use the device for chemically hazardous substances, toxic substances that can cause biohazard, explosive flammables or substances that release aggressive vapors when heated.
- If electrical equipment is used in systems and in environmental conditions that require greater safety measures, comply with the provisions of the directives for the installation of this material valid in your country.
- The device must only be used by qualified personnel who know the properties/characteristics of the sample used.
- Before operating the device for the first time, check whether the supply voltage corresponds to the mains voltage.
- To disconnect the device from the mains voltage, disconnect the power cord.
- Lay the power cable in such a way as to avoid contact with very hot surfaces of the device.
- Use only extension cables that comply with the regulations and have a protective conductor with a minimum operating temperature of at least 70°C.

Warning: protection against heat



- Observe the following distance and the space around the device to avoid heat accumulation in the device and overheating of the device:
 - 20 cm around the device
 - 1 m above the device
- Do not place flammable materials on, under or near the device as the heating element overheats the surrounding area.
- Remove the samples carefully, as the heating element and the sample-holder plates may still be very hot. To avoid burns with parts of the high-temperature oven, use thermally insulated gloves or pliers.

2 - Installation

Gently remove the device from the packaging, check that the device has no visible damage caused by transport and that there are all the accessories listed below.

2.1 Package Contents

- 1 Moisture determination tool.
- 2 VDE power cable
- 3 15-pole M/F cable for connection of the scale/heater
- 4 Underplate
- 5 Sample-holder plate extractor
- 6 Tray with antiventilation cylinder
- 7 #10 sample plates
- 8 CD with instruction manual



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2.2 Positioning of the device

The device was manufactured in such a way that reliable weighing results are obtained under normal operating conditions. The choice of the correct placement of the device is therefore important to ensure optimal and precise operation.

To choose the place where to install the device, the following criteria must be met:

Do not install the scale in environments where there are drafts, strong temperature changes.



Avoid exposure to extreme temperatures, as well as temperature changes that occur, for example, if the device is placed in radiators or in places exposed to sunlight.

Do not place the device near explosive and flammable materials.

Place the device on a stable and level surface.

Avoid shaking during weighing.



The humidity of the environment of use of the scale must be between 40% and 70%.

Do not expose the device to prolonged intense humidity. Unwanted condensation on the device can occur when it is cold and is placed in a room with a higher temperature. In this case the device must be disconnected from the mains and acclimated to the ambient temperature for about two hours.

Level the device by adjusting the special feet 2 on the front and one on the back of the device. The level bubble is located at the rear of the heater.



2.3 Start-up

All the operations to be performed to prepare the device for the first start-up are described below.

Open the oven lid and place:

1. Tray with antiventilation cylinder
2. Place the flat sample holder tray extractor
3. Place the star-shaped item on the weighing cone.



The scale is connected to the heater via a 15-pole M/F cable.

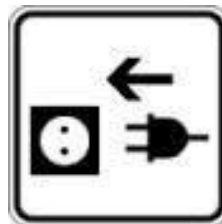
Insert the cable into the two connectors on the back of the device as shown in the figure.



Insert the VDE cable supplied into the power connector on the back of the device.

N.B. Check that the power supply shown on the label of the device corresponds to the one in use in the Country where you are installing the device.

Then connect the VDE cable to the socket located near the device. Do not use cables/extensions that do not comply with current regulations.



Wait 30 minutes after switching on and calibrate the device after leveling it.
Perform device calibration whenever it is moved to another location.

It is recommended not to drop objects of excessive weight on the weighing plate of the scale to avoid damaging it.

The assistance service must be performed by specialized personnel and the spare parts used must be original. To do this, contact the retailer where the device was purchased.



This is just a guide in order to start using the instrument.

The complete **USER MANUAL** describing in depth correct use and all functions, parameters, and features of the instrument it is accessible by scanning the QR code or visiting the following URL: <https://gram-group.com/services/download/>

Once there, please search for **the model's name TH** to download the corresponding documentation.

Any use of the instrument other than the one described in the user manual does not ensure anymore the safety of the product.

USER MANUAL





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