

60kg, 20g - 150kg, 50g



A300068 - A300151

Bartscher GmbH
Franz-Kleine-Str. 28
D-33154 Salzkotten
Germany

Phone: +49 5258 971-0

Fax: +49 5258 971-120

Technical Support Hotline: +49 5258 971-197

www.bartscher.com



Version: 2.0

Date of preparation: 2019-10-04

Original instruction manual

1	Safety	2
1.1	Explanation of signal words	2
1.2	Safety instructions.....	3
1.3	Intended use	5
1.4	Unintended use.....	5
2	General information	6
2.1	Liability and warranty	6
2.2	Copyright protection.....	6
2.3	Declaration of conformity	6
3	Transport, packaging and storage	7
3.1	Delivery check	7
3.2	Packaging	7
3.3	Storage	7
4	Technical data	8
4.1	Technical specifications	8
4.2	List of components of the appliance.....	9
4.3	Functions of the appliance	10
5	Installation and operation	10
5.1	Installation.....	10
5.2	Operation	12
6	Cleaning	18
6.1	Safety Instructions for cleaning	18
6.2	Cleaning.....	18
7	Possible Malfunctions.....	19
8	Disposal.....	20



Read this instruction manual before using and keep it available at all times!

This instruction manual contains information about installation, operation and maintenance of the appliance and constitutes an important source of information and reference guide. The knowledge of all operational and safety instructions included in this manual is a prerequisite for safe and proper handling of the appliance. Additionally, accident prevention, occupational health and safety, and legal regulations in force in the area the appliance is used apply.

Before you start using the appliance, especially before turning it on, read this instruction manual in order to avoid personal injuries and property damages. Improper use may cause damage.

This instruction manual forms an integral part of the product and must be stored in an immediate vicinity of the appliance and be available at all times. The instruction manual should be transferred together with the appliance.

1 Safety

EN

This appliance has been manufactured in accordance with technical standards currently in force. However, the appliance may be a source of hazards if used improperly or contrary to its intended purpose. All persons using the appliance must consider information included in this instruction manual and observe safety instructions.

1.1 Explanation of signal words

Important safety instructions and warning information are indicated in this instruction manual with appropriate signal words. You must strictly follow the instructions, to prevent accidents, personal injuries and property damages.



DANGER!

The signal word **DANGER** warns against hazards that lead to severe injuries or death if the hazards are not avoided.



WARNING!

The signal word **WARNING** warns against hazards that may lead to moderate or severe injuries or death if the hazards are not avoided.

**CAUTION!**

The signal word **CAUTION** warns against hazards that may lead to light or moderate injuries if the hazards are not avoided.

IMPORTANT!

The signal word **IMPORTANT** indicates possible property damages, which may occur if safety instructions are not observed.

NOTE!

The symbol **NOTE** indicates subsequent information and guidelines for the user on usage of the appliance.

1.2 Safety instructions

Electrical current

- Too high a mains voltage or incorrect installation may cause electric shock.
- The appliance may be connected only if data on the rating plate correspond with the mains voltage.
- To avoid short-circuit, the appliance should be kept dry.
- If there are malfunctions during operation, disconnect the appliance from the power supply.
- Do not touch the appliance's plug with wet hands.
- Never take hold of the appliance if it has fallen into water. Immediately disconnect the appliance from the power supply.
- Any repairs or housing opening may be carried out by professionals and relevant workshops only.
- Do not transport the appliance, holding it by the power cord.
- Do not allow the power cord to come into contact with heat sources or sharp edges.
- Do not bend, pinch nor knot the power cord.
- Always completely unwind the power cord.
- Never place the appliance or other objects on the power cord.
- Always take hold of the plug to disconnect the appliance from the power supply.

Operating personnel

- The device can be used by children of 8 years old and older, as well as by people with reduced physical, sensory or mental abilities and those with limited experience/knowledge as long as they are under supervision or have been instructed on safe use of the device and possible risks. Children should not play with the device.
- Do not leave the device unattended in the presence of children.

Improper use

- Unintended or prohibited use may cause damage to the appliance.
- The appliance may only be used when its technical condition is flawless and allows for safe operation.
- The appliance may only be used when all connections are executed according to rules of law in force.
- The appliance may only be used when it is clean.
- Use only original spare parts. Never attempt to repair the appliance on your own.
- Do not introduce any changes in the appliance nor modify it.
- Do not place any objects which weight exceeds the specified measuring range of the scale on it.

1.3 Intended use

As described below, every use of the appliance for a purpose differing and/or diverging from its intended standard use, is prohibited and considered to be an unintended use.

The following is an intended use:

- Weighing of objects up to 60 kg (150 kg).

1.4 Unintended use

An unintended use may lead to personal injuries or property damages caused by hazardous voltage, fire or high temperature. The appliance may only be used to perform tasks described in this instruction manual.

- Weighing of objects above 60 kg (150 kg).

2 General information

2.1 Liability and warranty

All information and instructions in this instruction manual account for legal regulations in force, current level of technical engineering knowledge as well as our expertise and experience, developed over the years. If special models or additional options are ordered, or state-of-the-art technical solutions were implemented, the actual scope of delivery of the appliance may, in some circumstances, differ from descriptions and numerous drawings in this instruction manual.

The manufacturer is not liable for any damages nor faults stemming from:

- failure to observe instructions,
- unintended use,
- technical alterations introduced by the user,
- usage of unapproved spare parts.

We reserve the right to introduce technical modifications to the product, intended for improvement of the appliance and its performance.

EN

2.2 Copyright protection

This instruction manual, and texts, drawings and images included in it, as well as its other components are copyright protected. It is prohibited to reproduce this instruction manual (including its excerpts), in any form and by any means, and to use and/or transfer its content to third parties without manufacturer's written permission. Violation of the above results in obligation to pay compensation. We reserve the right to claim further damages.

2.3 Declaration of conformity

The appliance meets the currently applicable standards and guidelines of the European Union. We confirm the above in the EC Declaration of Conformity. We may provide relevant Declaration of Conformity upon request.

3 Transport, packaging and storage

3.1 Delivery check

Immediately upon reception, check the delivery for completeness and possible shipping damage. In the case of visible transport damage refuse to accept the appliance or accept it conditionally. Mark and note the scope of damage in shipping documents/consignment list of the shipping company and lodge a complaint. Concealed damage must be reported immediately upon its discovery, as compensation claims may only be filed within applicable time limits.

If you find that parts or accessories missing, please contact our Customer Service Department.

3.2 Packaging

Do not dispose of the appliance cardboard box. It may be used to store the appliance when relocating or when shipping the appliance to our service point in the case of any damages.

The packaging and its elements are made of recyclable materials. Particularly, these are: plastic films and bags, cardboard box.

When disposing of the packaging, observe applicable domestic regulations. Recyclable packaging materials should be recycled.

EN

3.3 Storage

Leave the packaging closed until installation of the appliance; observe external indications concerning method of placing and storage. Store the packaging in the following conditions only:

- in closed rooms;
- in dry and dust-free surrounding;
- away from aggressive agents;
- in a location protected against sunlight;
- in a location protected against mechanical shocks.

In the case of extended storage (over three months), make sure you check the condition of the packaging and the parts regularly. If needed, replace the packaging with a new one.

4 Technical data

4.1 Technical specifications

Name:	Digital scale 60kg, 20g
Item No.:	A300068
Material:	Stainless steel
Measuring range of the scale up to, in kg:	60
Platform dimensions (W x D) in mm:	320 x 300
Resolution in g:	20
Power supply:	0,0018 kW / 230 V / 50 Hz
Dimensions (W x D x H) in mm:	325 x 305 x 42
Weight in kg:	3,2

EN

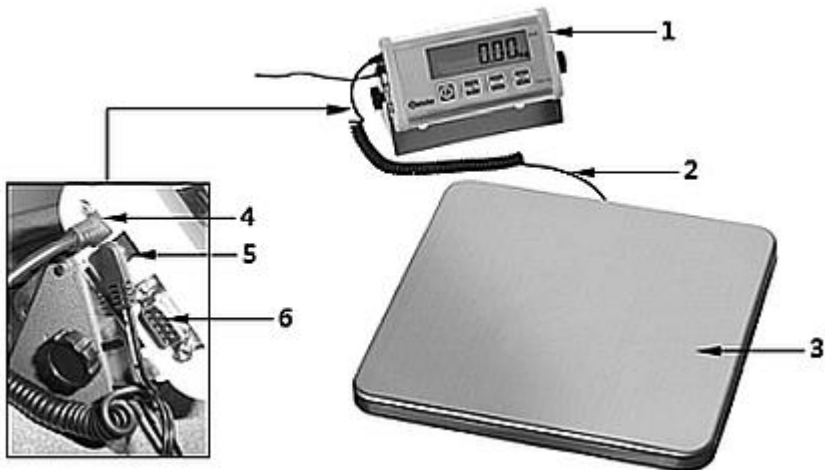
Name:	Digital scale 150kg, 50g
Item No.:	A300151
Material:	Stainless steel
Measuring range of the scale up to, in kg:	150
Platform dimensions (W x D) in mm:	320 x 300
Resolution in g:	50
Power supply:	0,0018 kW / 230 V / 50 Hz
Dimensions (W x D x H) in mm:	320 x 300 x 42
Weight in kg:	3,1

We reserve the right to implement technical modifications!

Version / Characteristics

- For weighing not requiring certification
- Control: electronic, touch
- Power supply: batteries (4 x AAA), mains adapter
- Remote display for wall mounting, max. distance 1.4 m
- Digital display
- ON/OFF button
- The set includes: 1 mains adapter

4.2 List of components of the appliance



EN

1. Remote display
2. Spiral cable
3. Platform
4. Spiral cable connector
5. Mains adapter connector
6. PC connector (RS 232 interface)

4.3 Functions of the appliance

The scale is designed for weighing of appropriate objects not requiring certification.

5 Installation and operation

5.1 Installation

Unpacking / Positioning

- Unpack the appliance, remove all external and internal packaging elements and shipment safeguards.



CAUTION!

Choking hazard!

Prevent children from accessing package materials, for instance: plastic bags and EPS.

EN

- If the appliance is covered with a protective film, remove it. Remove the film slowly, so no glue residues are left. Remove any glue residues with the use of a suitable solvent.
- Be careful not to damage the rating plate and warning labels fixed on the appliance.
- **Never** place the appliance in humid or wet environment.
- Place the appliance in a way making the connections easily accessible, so that they may be quickly disconnected if such a need arises.
- The appliance should be placed on surfaces that are:
 - even, with sufficient bearing capacity, resistant to water, dry and resistant to high temperatures;
 - sufficiently large, and thus enabling usage of the appliance with no problems;
 - easily accessible;
 - well ventilated.
- Maintain sufficient clearance from table edges. The appliance might turn over and fall down.

Installation and operation

- Do not expose the scale to direct sunlight as it could lead to discolouration, malfunction, or damage.
- Keep the balance away from water and other liquids as it is not watertight.

WARNING!

If the scale is used in a humid environment it may lead to electric shock, injury, and electric damages.

- Do not place the scale where it will be exposed to dust, wind, vibration, or large temperature fluctuations.
- Do not place the scale in locations with magnetic fields.

Power supply connection

- Verify if technical data of the appliance (see rating plate) correspond with the local electric power grid specification.
- Connect the appliance to a single, properly grounded mains socket with protective contact. Do not connect the appliance to a multi-socket.
- The power cord should be laid in a way preventing anyone from threading on it or tripping against it.
- Connect the spiral cable and the remote display.
- If the appliance is to be powered by the mains adapter:
 - connect the mains adapter plug to the appropriate socket on the left side of remote display
 - connect the plug to a single socket.

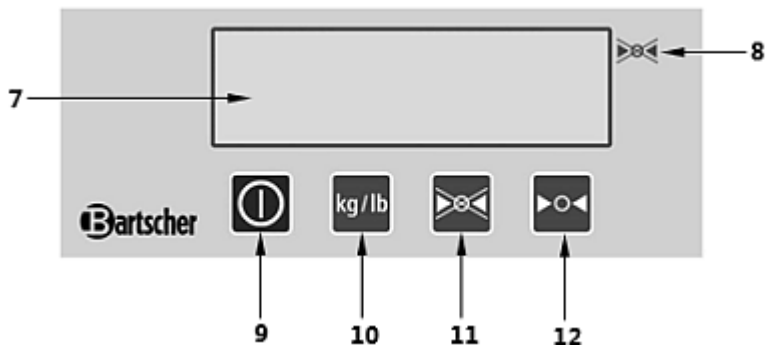
CAUTION!

Use only the original mains adapter supplied with the digital scale. Other adapters can cause permanent electric damage.

- The appliance may be also supplied by batteries. Open the battery compartment on the right side of the remote display and insert 4 AAA alkaline batteries, observing polarity. Close the battery compartment.

5.2 Operation

Control Panel



Functions of keys and displays

EN

Name	Function
7. Digital display	Selected functions or weighing results are displayed.
8. "SAVE" indicator	Shows that "SAVE" function has been activated
9. ON/OFF key	Activation / deactivation
10. "WEIGHING UNIT" key	Switching kg/lb
11. "SAVE" key	After pressing that key the weighing result is displayed on the digital display for 120 seconds after the weighed objects have been removed.
12. "ZERO" and "TARE" key	Sets the display to zero or subtracts the container weight.

Before use

1. Make sure that all components of the appliance are available and in sound condition.
2. Before use clean the appliance according to the instructions in section 6 “Cleaning”.
3. All cleaned parts should be dried thoroughly.
4. Allow the digital scale to adjust to the room temperature before use.

Device switch on / off

1. If there are no objects on the pan, press the on/off key once. ①.
The digital display shows all indicators for a few seconds and then only the maximum weighing result and resolution are displayed.
2. When "0" appears on the digital display, the weighing of the objects can be started.
3. To switch off the digital scale, press the on/off key again. ①.
4. After using the digital scale, disconnect it from the socket (pull the plug!).
5. In case of prolonged period of disuse, remove the batteries from the appliance.

EN

Weighing

1. Press on/off key ①, to activate the digital scale.
When the device is switched on, all indicators appear on the digital display for a few seconds, followed by "0".
2. You can now start weighing the required objects.

Selection of weighing unit

1. Press **kg/lb** to select the weighing unit, “kg” or “lb”.
After selection, the unit appears on the digital display next to the displayed weighing result.
2. When the indicators stop blinking (which means that the data is stable) the weighing results may be read.

If no container is used for weighing:

1. Check if "0" is displayed.
2. If not, press ►◀ to recall “0” indicator.
3. Place the objects to be weighed on the platform.
When the value is stable, the stability indicator "►" appears on the digital display.

If a container is used for weighing:

1. Put an empty container on the platform.
2. Wait until the stability indicator "►" appears.
3. Then press ►◀◁.
4. Place the objects to be weighed in the container.

When the value is stable, the stability indicator "►" appears on the digital display.

Calibration methods

Any single point calibration

1. Switch on the device, hold down **kg/lb** key until the digital display shows "-----".
2. Press key **kg/lb** or **►◀◁** shortly to switch to the calibration mode.

The digital display shows "CAL".

3. Press key **►◀◁** shortly to make sure that the calibration mode is set.

The digital display shows "Load" and "0.0kg" alternately.

4. Make sure that there are no objects on the platform, press **►◀◁** shortly to confirm that the digital scale starts the calibration of "0.0kg" point.

During the calibration of "0.0kg" point the digital display shows blinking "0.0kg".

5. The platform should be kept in calm and stable condition, free from any factors that might affect weighing.

When the weight remains stable for more than 2 seconds the digital scale will automatically end the calibration of "0.0kg" point and start the next calibration point. Otherwise, "0.0kg" will blink on the digital display until the weight stabilizes.

6. Assuming that the next calibration point is "xx.xkg", "Load" and "xx.xkg" will be alternately displayed on the digital display, which means that a weight of "xx.xkg" should be put on the platform.
7. If that weight must be changed, press **kg/lb** or **►◀◁** shortly to change the modification menu, then press **kg/lb** shortly to change the blinking position.
8. Press **►◀◁** shortly to change the blinking position by plus 1 and press **►◀◁** shortly to make sure that the change is finished.
9. Make sure that the weight on the platform is "xx.xkg", press **►◀◁** shortly to confirm the calibration "xx.xkg".

During calibration of "xx.xkg" point the digital display shows blinking "xx.xkg".


10. The platform should be kept in calm and stable condition, free from any factors that might affect weighing.



When the weight remains stable for more than 2 seconds the digital scale will automatically end the calibration of "xx.xkg" point and save the calibration

Installation and operation

parameters. Otherwise, "xx.xkg" will blink on the digital display until the weight stabilizes.


Standard two-point calibration

1. Switch on the device, hold down **kg/lb** key until the digital display shows "-----".
2. Press key **kg/lb** or  shortly to switch to the calibration mode.
The digital display shows "Line".


3. Press key  shortly to make sure that the appliance starts the calibration.
After the calibration starts, the digital display shows "Load" and "0.0kg" alternately.
4. Make sure that there are no objects on the platform, press  shortly to confirm that the digital scale starts the calibration of "0.0kg" point.

During calibration of "0.0kg" point "0.0kg" blinks on the digital display; the platform should be kept in calm and stable condition, free from any factors that might affect weighing. When the weight remains stable for more than 2 seconds the digital scale will automatically end the calibration of "0.0kg" point and start the next calibration point. Otherwise, "0.0kg" will blink on the digital display until the weight stabilizes.


The next calibration will be displayed automatically and will be located in the centre of the measurement range of the scale (30 or 75 kg).


5. Place the displayed weight on the platform, wait until the readout stabilizes (stops blinking) and press  key to confirm.

The digital scale then automatically switches to calibration in the full measurement range (60 or 150 kg).

6. Place the displayed weight on the platform, wait until the readout stabilizes (stops blinking) and press  key to confirm.
7. You can now return to weighing mode.

SAVE function

After pressing  key the weighing result is displayed on the digital display for 120 seconds after the weighed objects have been removed from the platform. This makes it easy to read the weight.


1. Place the objects to be weighed on the platform.
2. Wait until the weight is displayed in a stable way.
3. Press  and wait for an acoustic signal (beep).

The "►" indicator for SAVE function appears or lights up.

4. Remove the object from the platform.

The weighing result will be displayed on the digital display for 120 seconds.

5. Exiting / deactivating the SAVE function

- The object is weighed and SAVE function will be deactivated.
- To exit the SAVE function press  key again to deactivate the "▶" indicator for SAVE function and return to the weighing result.

Send data / print function

In order to integrate the electronic digital scale with the Electronic Data Processing (EDP) system, weighing data may be transmitted over RS232 interface.

1. Press and hold  key for 2 seconds.

An acoustic signal is heard and the weight measurement data is sent from the central processing unit's processor to the computer or connected printer.

Counting mode (number of pieces)

This function of the digital scale determines the number of objects in a sample. It calculates their number taking the weight of the base item as a basis in order to determine how many pieces there are.

1. Remove all objects from the platform and press ►◀ shortly to set the appliance to "0".
2. Press **kg/lb** key until the appliance enters "pcs" mode and the display shows "ADD10".
3. By pressing ►◀ key it is possible to change the number of pieces (20, 50, 5).
4. Put the number of pieces corresponding to setting (5, 10,

NOTE: The weight of each object should be higher than the minimum permitted partial value, otherwise the digital display will show "no". Items' weight must be the same.

5. Press ►◀ to calculate and save the unitary weight.
6. Remove the objects from the platform.

The digital scale is set to count objects of identical unitary weight.

7. Place the objects to be counted on the platform.

The digital display shows the number of objects.

8. Press ►◀ to change the number of objects to be counted.
9. Press **kg/lb** to abort the counting process.

The digital scale takes the last value to be counted.

6 Cleaning

6.1 Safety Instructions for cleaning

- Before cleaning, disconnect the appliance from the power supply.
- Leave the appliance to cool down completely.
- Make sure water does not enter the appliance. Do not immerse the appliance in water or other liquids during cleaning. Do not clean the appliance with a pressurized water jet.
- Do not use any sharp or pointed, nor metal implements (knife, fork, etc.). Sharp or pointed implements may damage the appliance, and when in contact with live parts, they may cause electric shock.
- For cleaning, do not use any scouring agents that contain solvents nor corrosive cleaning agents. They may damage the surface.

6.2 Cleaning

1. Clean the appliance regularly.
2. Clean the housing of the appliance with a soft, damp cloth and mild cleaning agent.
3. If necessary, remove the platform from the appliance.
4. Clean the platform with a soft, damp cloth.
5. Clean the remote display, spiral cable and connection cable with a soft, damp cloth.
6. After cleaning, use a soft cloth to dry the cleaned surfaces.

7 Possible Malfunctions

The table below contains descriptions of possible causes and solutions to malfunctions or errors during operation of the appliance. When malfunction cannot be removed, contact the technical service.

Malfunction	Possible Cause	Solution
No indicators appear on the digital display.	Incorrectly connected plug.	Insert the plug correctly.
	Worn out batteries.	Replace the batteries.
Low-voltage indicator "AC".	Low battery voltage.	Replace the batteries.
Error during the weight measurements readout.	No "0" value was set before weighing.	Do not put any objects on the platform, press ►◀ and start the weighing process.
	Digital scale not calibrated.	Calibrate the digital scale.
Incorrect calibration.	The calibration weight is not precise.	Use precise calibration weight.

Error code messages

Message	Possible Cause	Solution
no	During calibration a weight was placed that does not correspond to the value of the display.	Place a weight corresponding to the displayed values on the platform.
	During calibration a number of objects were placed that does correspond to the value of the display.	Place the number of objects corresponding to the displayed values on the platform.
AC	Too low battery voltage.	Use new batteries or the mains adapter.

Message	Possible Cause	Solution
Err-0	Loss of calibration data.	Perform new calibration.
	Defective digital scale or remote display.	Contact the service company.
Err-1	Weight exceeds the maximum permissible value.	Remove the objects from the platform.
	Loss of calibration data.	Perform new calibration.
	Defective digital scale or remote display.	Contact the service company.

8 Disposal

Electrical appliance



Electric appliances are marked with this symbol. Electrical appliances must be disposed of and recycled in a correct and environmentally friendly manner. You must not dispose of electric appliances with household waste. Disconnect the appliance from the power supply and remove power cord from the appliance.

EN

Electrical appliances should be returned to designated collection points.

Disposal of batteries

You are legally obliged to dispose of the batteries present in your appliance at an appropriate collection point, regardless of whether they contain the harmful substances*. It is forbidden to dispose of them with the household waste.

*Cd – cadmium, Pb – lead, Hg - mercury