

DIGITAL BALANCE



This manual should be made available to all users of this equipment. For best results, and for maximum durability of the equipment, carefully read and follow all instructions.

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Note: According to the applicable legislation regarding "Nonautomatic weighing instruments" in which balances are included, by means of writ dating from the 22nd of October, 1994 (BOE 1/3rd/95), these balances must not be used for:

- Commercial transactions
- Calculating taxes, tariffs, rates, indemnities, and other similar canons
- Judicial surveys
- Pharmaceutical medicine preparations, as well as
 analysis made in medical or pharmaceutical laboratories
- Determining the price or total amount in sale price or in

<u>Instructions on environmental protection:</u>

At the end of its life cycle, please do not dispose of this equipment by throwing it in the usual garbage. Instead, hand it over at a collection point for the recycling of electrical and electronic appliances. It does not contain dangerous nor toxic products for humans, but inadequate disposal could still damage the environment. The materials are recyclable as mentioned. By recycling material or through other forms or repurposing old appliances, you are making an important contribution to the protection of our environment. Please inquire with your local community authorities for the proper disposal location.

I. Getting Started

Thank you for choosing U.S. Solid's Analytical Balance. We hope you enjoy your purchase. Please maintain the equipment according to all instructions within the manual.

This product was developed according to CE marking regulations while emphasizing aesthetics and safety for the user. It has ISO certification, specifically ISO 9001 The high quality of the product, coupled with proper user care, should allow you to enjoy the product for years.

Improper use of this equipment can cause accidents, including but not limited to: electric discharges, circuit breaker malfunctions, fire, etc. Please read the maintenance section, where this is explained more fully.

FOR BEST RESULTS AND LONGEVITY IN PRODUCT EFFICACY, READ THROUGH THIS MANUAL THOROUGHLY BEFORE USING THE PRODUCT

Please bear in mind the following:

- This manual should be kept with the analytical balance, so it is available to all users
- Be careful when handling the balance. Avoid any sudden movements when in its vicinity. Be sure to not drop the balance, nor drop any heavy/sharp objects on it. Keep liquids away from the balance to avoid spills.
- Never take apart the balance to try and fix yourself. This could ruin the entire balance, and voids the product warranty. There is also risk of injury when disassembling the balance.
- To prevent fire and electrical issues, avoid dusty or overly dry environments. In case of electrical issue or fire, unplug the balance immediately.
- During setup, installation, and use, contact your wholesaler with any questions that arise.
- This equipment is protected under the Warranties and Consumer Good Regulation (10/2003)
- Overhaul is not covered by the equipment warranty
- Changes made to the product by non-certified individuals will result in a loss of the product warranty
- Accessories, including their loss, are not covered by the product warranty, nor does the warrant cover piece's deterioration over the course of time.
- Keep your invoice, either for having the right to a warranty, or for asking for warranty coverage. Manufacturer reserves the right to modify or improve the manual or equipment.

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ALWAYS MAKE SURE YOU CALIBRATE YOUR SCALE BEFORE USING,

FEATURES

- High precision load cell
- Rugged plastic housing
- LCD display
- Height-adjustable feet
- Overload protection
- Checking weighing, piece counting function
- Bubble level
- RS232 interface

VI. Maintenance and Cleaning

To get the best results and for product longevity, be sure to follow the suggestions below.

Note: All of the suggestions and guidelines mentioned below and throughout this manual will only be effective with continuous and careful maintenance of the equipment

- Follow all processes outlined in the manual
- Make the manual available to all users of the equipment
- Prevent the balance from any sudden movements or falls, as well as from direct sunlight or air flow. The balance is a precision instrument and must be handled carefully.
- Balance must be plugged into a grounded electrical outlet and the socket should be easily accessible to unplug in case of emergency
- Never unplug the balance by pulling on the wire, do so from the base
- Never use the balance in a wedged-in location, such as a shelf
- Never use other objects such as pens, pencils, etc. to press the buttons on the control panel; use only your fingers.
- Never place anything on the pan heavier than the maximum capacity of the balance, or the sensor could be damaged
- Do not submerge the balance, nor spill any liquids on it
- If any liquid does come into contact with the electrical parts of the balance, immediately disconnect it and send it in for service to be checked and adjusted if necessary
- Always use only original components and supplies. Other devices and parts may appear similar, but can damage the equipment.

<u>Cleaning</u>

- Never use scourers or substances that can grate to clean metallic parts. This include, but is not limited to, stainless steel, aluminum, coatings, etc.. These can damage the balance and lead to early erosion of effectiveness of the balance.
- -Use a lint-free cloth, dampened with soapy water, that does not contain any abrasive surfaces, nor corrosive materials

ATTENTION!! If equipment is not properly cleaned and cared for, technical service will be unable to fix or repair issues.

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V. Using the Balance

II. Specifications

<u>Start</u>

- 1. Connect the balance to the power supply and press ON key on the panel. Wait 30 minutes after powering on for best performance.
- 2. After warming up, calibrate the balance.
- 3. After calibration, the balance will enter weighing mode
- 4. To turn the balance off, press the OFF key on the panel and the display will shut off. If the balance will be unused for an extended period of time, disconnect it from the power supply.

<u>Calibration</u>

- 1. Press TARE/CAL key; the value of the necessary weight will fash on display
- 2. Put the calibration weight on the pan. Wait until the value of the calibration weight stops flashing and is fixed on the display (e.g. 100.00 g, 200.00 g, etc., depending on the model)
- 3. Remove the weight from the pan
- 4. The balance will enter weighing mode and will display 0.00g.

Note: Each balance includes the necessary weight to complete external calibra-tion.

Tare function

- 1. Put the receptacle on the weighing pan; its weight will be displayed
- 2. Press TARE/CAL key and the reading on the display will automatically be set to 0.00g; tare is complete
- 3. If the receptacle is removed from the pan, the corresponding weight, with negative value will be displayed.
- 4. Press the TARE/CAL key again and the value on display will be set to zero again

Weighing unit selection

Press UNIT key to select the desired weighing unit from g, ct, oz, and Ib

Piece counting function

- 1. Press the COU button
- 2. Press the TARE/CAL button repeatedly to cycle through different counts. This function can be used with counts of 10, 20, 50, 100, 150, 200, 250, or 500 pieces.
- 3. Put the corresponding number of pieces on the pan, press the PCS button to confirm.
- 4. Remove the pieces from the pan and the balance is ready to be used in piece counting mode.
- 5. To return to weighing mode, simply press the COU button again.

Technical Parameters:

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Model	USS- DBS28-1	USS- DBS28-2	USS- DBS28-5	USS- DBS28-6	USS- DBS28-10	USS- DBS28-20	USS- DBS28-30
Max Capacity	100 g	200 g	500 g	600 g	1000 g	2000 g	3000 g
Readabil- ity	0.01 g						
Repeat ability	± 0.03 g						
Linearity	± 0.03 g						
Pan size	128 * 157mm						
Dimen- sions	280 * 180 *80 mm						
Net weight	1500 g						
Output	110/220-240 V						

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III. Panel Description



Panel Explanations

- 1. ON/OFF: Turns device on and off
- 2. UNIT: Select between ct, oz, lb, g
- 3. COU: Piece counting mode
- 4. TARE/CAL: Tare the balance/ Calibration key

IV. Installation

Choosing the installation location

The location should meet the following conditions:

- 1. Work room should be clean and dry
- 2. Balance should be placed on a solid, stable, plain flat surface
- 3. Avoid locations in which the balance could be exposed to any of the following:
 - a. Airflow from air conditioners, fans, doors, or windows
 - b. Vibrations from surrounding or nearby equipment
 - c. Direct sunlight or radiation
- 4. Do not use the balance anywhere exposed to explosive, combustible, or corrosive gases.
- 5. Do not use the balance in areas with high humidity or high levels of dust
- 6. Keep the balance clean.
- 7. Do not leave material on the balance when not in use.

Unpacking and inspection

Check that all of the items indicated below are included in the package and that nothing has been damaged:

- Balance
- Pan
- Power Cable
- Manual
- Weight

In case the balance or any component is damaged during transport, tell your transportation agent immediately in order to process claims within the proper time frame.

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