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Mettler Toledo JL6001GE/A

Mettler Toledo JL6001GE/A Gram Scale Instruction Manual

Model: JL6001GE/A | Brand: Mettler Toledo

1. IMPORTANT SAFETY INFORMATION

Please read this manual carefully before operating the Mettler Toledo JL6001GE/A Gram Scale. Retain this manual for future reference. Failure to follow these instructions may result in damage to the device or inaccurate measurements.

- Do not expose the scale to extreme temperatures, humidity, or direct sunlight.
- Avoid placing the scale near strong electromagnetic fields or vibrating equipment.
- Use only the provided AC adapter or specified batteries.
- Do not overload the scale beyond its maximum capacity of 6200 grams.
- Keep the weighing pan clean and free from debris.
- This scale is a precision instrument; handle it with care.

2. PRODUCT OVERVIEW

The Mettler Toledo JL6001GE/A is a high-precision gram scale designed for accurate weighing in various units, including grams, pennyweight (dwt), ounces (oz.), Troy ounces, carats, and pounds. It features a 6200-gram capacity with 0.1-gram readability, making it suitable for jewelry, laboratory, and postal applications. The scale is Legal for Trade and includes an RS232 interface for data connectivity.



Figure 2.1: Front view of the Mettler Toledo JL6001GE/A Gram Scale, showing the weighing pan and control panel.

Key Features:

- **Multiple Weighing Units:** Grams, Pennyweight (dwt), Ounce (oz.), Troy Oz., Carat, and Pound.
- **High Capacity:** Weighs up to 6200 grams.
- **High Readability:** 0.1 gram precision.
- **Legal for Trade:** Certified for commercial use.
- **Connectivity:** RS232 Interface Port for data transfer.
- **Display:** Clear LCD with Backlit Display.
- **Portability:** Features a Carry Handle and can operate on battery power (adapter included).

3. SETUP

3.1 Unpacking

Carefully remove the scale and all accessories from the packaging. Verify that all components are present: the scale unit, weighing pan, AC adapter, and this instruction manual.

3.2 Placement

Place the scale on a stable, level, and vibration-free surface. Ensure the surface is clean and dry. Avoid locations with direct air currents (e.g., near air conditioning vents or open windows) as these can affect measurement accuracy.

3.3 Power Connection

The scale can be powered by the included AC adapter or batteries.

- **AC Adapter:** Connect the AC adapter to the power input port on the rear of the scale and plug it into a suitable power outlet.
- **Batteries:** (If applicable) Open the battery compartment, insert the specified batteries, ensuring correct polarity, and close the compartment.



Figure 3.1: Rear view of the scale, highlighting the power supply input and RS232 port.

3.4 Leveling the Scale

The scale must be perfectly level for accurate measurements. Use the adjustable feet located at the bottom corners of the scale to level it. Adjust the feet until the bubble in the level indicator (usually located near the display) is centered.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

Press the **ON/OFF** button (often marked with a power symbol) to turn the scale on. The display will show a self-test sequence and then settle at 0.0. Press and hold the **ON/OFF** button to turn the scale off.



Figure 4.1: Close-up view of the control panel, showing the display and function buttons.

4.2 Calibration

Regular calibration is crucial for maintaining accuracy, especially after moving the scale or significant temperature changes. Refer to the specific calibration procedure in your scale's detailed manual, typically involving a known calibration weight.

1. Ensure the weighing pan is empty.
2. Press the **Cal** button (often marked with 'Cal' or a similar symbol).
3. Follow the on-screen prompts to place the specified calibration weight on the pan.
4. Wait for the scale to stabilize and display '0.0' or 'Pass'.

4.3 Weighing Procedure

1. Ensure the scale is on and displaying '0.0'.
2. Gently place the item to be weighed in the center of the weighing pan.
3. Wait for the display to stabilize. The stable weight will be shown.
4. Remove the item from the pan.

4.4 Unit Conversion

To change the weighing unit (e.g., from grams to ounces or carats), press the **Δ/F** button (often marked with 'Δ/F' or 'Unit'). Each press will cycle through the available units (grams, oz, dwt, ct, lb, etc.).

4.5 Taring (Zeroing)

The tare function allows you to zero the scale with a container on the pan, so only the weight of the contents is measured.

1. Place the empty container on the weighing pan. The display will show its weight.
2. Press the →0← button (often marked with 'T' or 'Tare'). The display will return to '0.0'.
3. Add the material to be weighed into the container. The display will show the net weight of the material.

4.6 RS232 Interface

The RS232 port allows for data communication with external devices such as computers or printers. Consult the specific software or device manual for instructions on connecting and utilizing the RS232 interface for data logging or printing.

5. MAINTENANCE

5.1 Cleaning

To clean the scale, use a soft, damp cloth with a mild detergent. Do not use abrasive cleaners, solvents, or immerse the scale in water. Ensure no liquids enter the scale's interior.

5.2 Storage

When not in use, store the scale in a clean, dry environment, away from direct sunlight and extreme temperatures. If storing for an extended period, remove batteries to prevent leakage.

5.3 Regular Checks

Periodically check the scale's leveling and perform a calibration check with a known weight to ensure continued accuracy.

6. TROUBLESHOOTING

If you encounter issues with your Mettler Toledo JL6001GE/A Gram Scale, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate readings	Scale not level, unstable surface, drafts, needs calibration, overloaded.	Ensure scale is level, place on stable surface, avoid drafts, perform calibration, do not exceed capacity.
Display shows 'Err' or blank	Overload, power issue, internal fault.	Remove weight, check power connection/batteries, restart scale. If persistent, contact support.
Scale does not turn on	No power, dead batteries, faulty adapter.	Check power outlet, replace batteries, try a different adapter (if compatible).
RS232 communication failure	Incorrect cable, driver issues, software settings.	Verify cable connection, install necessary drivers, check software communication settings.

If the problem persists after attempting these solutions, please contact Mettler Toledo customer support for assistance.

7. SPECIFICATIONS

Detailed technical specifications for the Mettler Toledo JL6001GE/A Gram Scale:

Feature	Specification
Brand	Mettler Toledo
Model Number	JL6001GE/A
Weight Limit	6200 Grams (6.2 kg / 13.67 lbs)
Readout Accuracy	0.1 Grams
Display Type	LCD with Backlit Display
Special Features	Backlit Display, Carry Handle
Connectivity	RS232 Interface Port
Power Source	AC Adapter (included), Battery Power Capable
Item Weight	3 Pounds
Package Dimensions	16 x 12 x 8 inches
Color	Stainless Steel (weighing pan)
UPC	640823600430



Figure 7.1: Dimensions of the Mettler Toledo JL6001GE/A Gram Scale.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Mettler Toledo JL6001GE/A Gram Scale comes with a 1-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Mettler Toledo customer support. Refer to the official Mettler Toledo website or product packaging for the most current contact information.