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Bonvoisin DY 18

Bonvoisin 6kg/0.1g Digital Counting Scale

Model: DY 18 - Instruction Manual

1. Introduction

This manual provides comprehensive instructions for the safe and efficient operation of your Bonvoisin 6kg/0.1g Digital Counting Scale, Model DY 18. Please read this manual thoroughly before use to ensure proper functionality and to prevent damage to the device.

2. Safety Information

- Place the scale on a stable, level surface away from vibrations and drafts.
- Avoid exposing the scale to extreme temperatures, humidity, or direct sunlight.
- Do not overload the scale beyond its maximum capacity of 6kg.
- Keep the scale clean and dry. Use a soft, damp cloth for cleaning; avoid abrasive cleaners.
- Ensure the power adapter is correctly connected and the battery is charged for optimal performance.

3. Product Overview

3.1 Components

The Bonvoisin Digital Counting Scale consists of the following main components:

- Stainless Steel Weighing Platform
- LCD Display (Weight, Unit Weight, Quantity)
- Control Panel with Numeric Keypad and Function Buttons
- Adjustable Feet
- Built-in Bubble Level
- RS232 Interface Port
- Rechargeable Battery and Power Adapter



Image: Bonvoisin Digital Counting Scale with a test weight on the platform, showing the display and keypad.

3.2 Display and Keypad Functions

The scale features a multi-segment LCD display showing Weight, Unit Weight, and Quantity. The keypad includes numeric inputs and dedicated function buttons for various operations.



Image: Close-up view of the scale's LCD display and control panel with various buttons.

4. Setup

4.1 Unpacking

Carefully remove the scale and all accessories from the packaging. Retain the packaging for future transport or storage.

4.2 Placement

Place the scale on a firm, level surface. Use the adjustable feet to level the scale, ensuring the bubble in the built-in level indicator is centered.

4.3 Power Connection

Connect the provided power adapter to the scale's power input and then to a suitable electrical outlet. The internal rechargeable battery provides up to 100 hours of continuous use when fully charged. The scale can be operated while charging.



Image: The rechargeable battery and power adapter, illustrating the dual power options.

4.4 Initial Calibration (Factory Calibrated)

The scale is factory-calibrated. External calibration is possible if required for specific precision needs. Refer to the advanced settings section (not covered in this basic manual) or contact support for external calibration procedures.

5. Operating Instructions

5.1 Power On/Off

Press the **ON/OFF** button to turn the scale on or off.

5.2 Basic Weighing

1. Ensure the scale is on and displays "0.0000 kg" (or current unit).
2. Place the item(s) to be weighed on the center of the weighing platform.
3. Read the weight displayed in the "WEIGHT" section of the LCD.

5.3 Unit Conversion

The scale supports multiple units: grams (g), kilograms (kg), and pounds (lb). To switch between units, press the **kg/lb** button.



Image: The scale's display illustrating the conversion between kilograms, grams, and pounds.

5.4 Tare Function

To weigh items in a container without including the container's weight:

1. Place the empty container on the weighing platform.
2. Press the **TARE** button. The display will reset to zero.
3. Add the items to be weighed into the container. The display will show only the net weight of the items.

5.5 Counting Function

The scale offers two methods for counting parts:

Method 1: Known Unit Weight

1. Enter the known unit weight of a single item using the numeric keypad.
2. Press the **UNIT W.T.** button to confirm.
3. Place the items to be counted on the platform. The "QUANTITY" display will show the count.

Method 2: Sampling

1. Place a sample quantity (e.g., 10, 20, 50, 100 pieces) of the items on the platform.
2. Enter the exact number of sample pieces using the numeric keypad.
3. Press the **SMPL** button to confirm the sample. The scale will calculate the unit weight.
4. Add the remaining items to be counted. The "QUANTITY" display will show the total count.

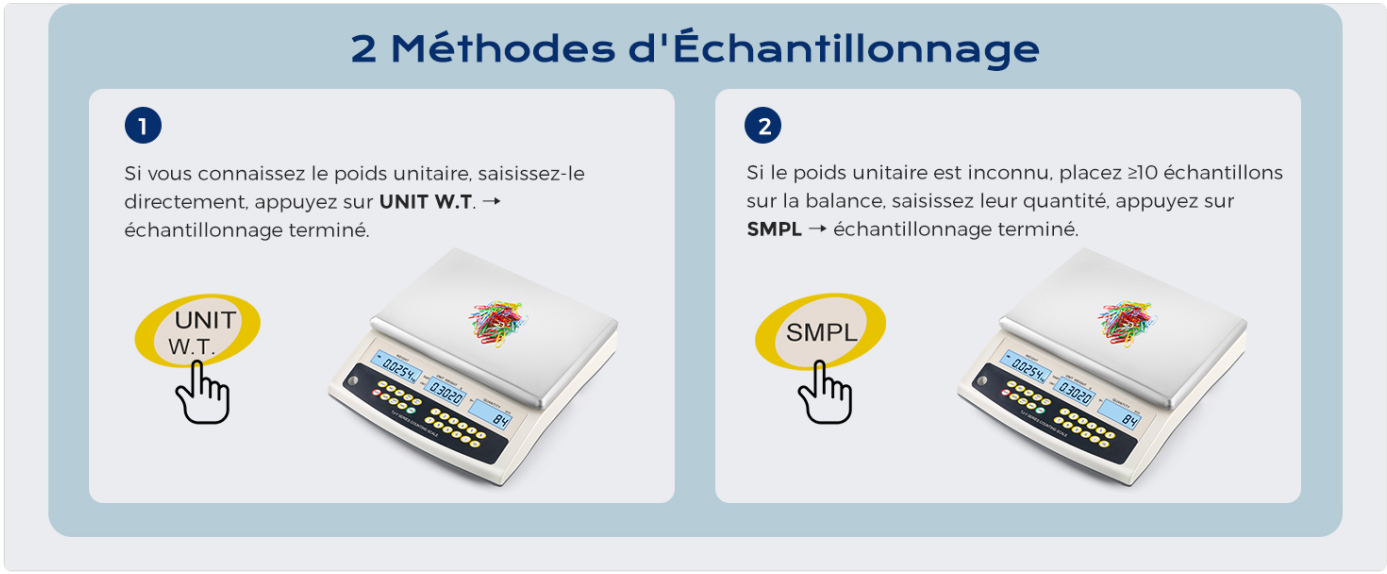


Image: Illustration of the two sampling methods for the counting function: entering unit weight or using a sample quantity.

5.6 Accumulation Function

To accumulate total weight and quantity from multiple weighing operations:

1. After a weighing or counting operation, press the **M+** button. The current weight and quantity will be added to the total.
2. Repeat for subsequent items.
3. To view the accumulated total, press the **MR** button. The display will show total weight, total number of operations, and total quantity.
4. To clear the accumulation memory, press **MC**.



Image: Visual representation of the accumulation function, showing how total weight and quantity are summed from multiple measurements.

5.7 Alarm Settings (Weight & Quantity)

The scale allows setting custom thresholds for weight and quantity. An audible alarm will sound if these thresholds are exceeded.

1. Press the **ALARM** button.
2. Use the numeric keypad to enter the desired upper limit for weight or quantity.
3. Press **ENTER** to save the setting.

4. The alarm will activate if the measured value goes above the set limit.



Image: The scale displaying an alarm condition when a preset quantity limit is surpassed.

5.8 RS232 Connectivity

The integrated RS232 interface allows direct connection to printers, computers, or POS systems for data management. This enables immediate export of weight or quantity data, streamlining inventory management and improving efficiency.

Note:

The scale uses a null modem serial connection (TX/RX inverted). Data output requires a computer application (such as HyperTerminal or STC ISP) for proper communication.



Image: The RS232 interface port on the back of the scale, with illustrations showing connections to a laptop and a printer for data transfer.

6. Maintenance

- **Cleaning:** Wipe the scale with a soft, damp cloth. Do not use harsh chemicals or abrasive materials. Ensure no liquids enter the scale's interior.
- **Storage:** When not in use for extended periods, store the scale in a dry, cool place.
- **Battery:** Recharge the battery regularly, even if the scale is not frequently used, to maintain battery health.
- **Inspection:** Periodically check the weighing platform and feet for any damage or debris that might affect accuracy.

7. Troubleshooting

Problem	Possible Cause	Solution
Scale does not turn on.	No power, discharged battery, faulty power adapter.	Check power connection. Charge battery. Replace adapter if necessary.
Inaccurate readings.	Scale not level, unstable surface, drafts, overload, debris under platform.	Ensure scale is level and on a stable surface. Avoid drafts. Do not exceed capacity. Clean platform.
"OVERLOAD" message.	Weight exceeds maximum capacity.	Remove excess weight immediately.
Counting function errors.	Incorrect unit weight entered, insufficient sample size, inconsistent item weight.	Re-enter unit weight or re-sample with a larger, accurate sample. Ensure items are uniform.
RS232 data transfer issues.	Incorrect cable, software configuration, driver issues.	Verify cable type (null modem). Check software settings and drivers. Consult RS232 documentation.

8. Specifications

Feature	Detail
Model	DY 18
Capacity	6 kg (13.2 lb)
Accuracy	0.1 g (0.0002 lb)
Units	g, kg, lb
Display Type	LCD
Platform Material	Stainless Steel
Platform Dimensions	300 x 220 mm (11.8 x 8.6 inches)
Connectivity	RS232 Interface
Power Source	Rechargeable 6V, 4AH Battery (up to 100 hours) / AC Adapter
Special Features	Tare, Counting, Accumulation, Weight/Quantity Alarms, Adjustable Feet, Bubble Level
Manufacturer Part Number	DY 18
GTIN/UPC	735279359848

9. Warranty and Support

Bonvoisin products are designed for durability and precision. For warranty information, technical support, or service inquiries, please contact Bonvoisin customer service through your purchase platform or the official Bonvoisin website. Please have your model number (DY 18) and purchase date available when contacting support.

Note: Specific warranty terms may vary by region and retailer.

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