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NEWTRY YX-346

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Brand: NEWTRY | Model: YX-346

1. INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your NEWTRY 100g/0.001g Electronic Fabric GSM Scale and Disc Sampler. This precision instrument is designed for accurately measuring the Grams per Square Meter (GSM) of various materials, including textiles, paper, and non-woven fabrics. Adhering to these instructions will ensure optimal performance and longevity of the device.



Image 1.1: The NEWTRY Electronic Fabric GSM Scale and Disc Sampler, shown with various fabric samples.

2. PRODUCT COMPONENTS

Your package should contain the following items:

- Electronic Digital Scale (100g capacity, 0.001g accuracy)
- Disc Sampler (100cm² cutting area, 0-2mm cutting thickness)
- Rubber Pad (6mm thickness)
- Double-edged Blades (pre-installed in sampler, replaceable)
- Calibration Weight (e.g., 200g, for scale calibration)
- Power Adapter (110V compatible)



Image 2.1: The electronic scale and disc sampler, designed to work together for GSM measurement.

3. SETUP INSTRUCTIONS

3.1 Electronic Scale Setup

1. **Placement:** Place the electronic scale on a stable, level, and vibration-free surface. Avoid areas with drafts or direct sunlight.
2. **Power Connection:** Connect the provided power adapter to the scale and plug it into a standard 110V electrical outlet.
3. **Initial Power On:** Press the 'ON/OFF' button to power on the scale. Allow a few moments for the display to stabilize.
4. **Calibration (Recommended):** For optimal accuracy, calibrate the scale using the provided calibration weight. Refer to the scale's specific calibration procedure, usually involving a 'CAL' button and placing the weight on the pan when prompted.



Image 3.1: The electronic scale, often equipped with a windproof cover for stable readings.

3.2 Disc Sampler Setup

1. **Blade Inspection:** Ensure the double-edged blades are securely installed and sharp. Handle with extreme care.
2. **Rubber Pad Placement:** Place the 6mm thick rubber pad on a flat, sturdy surface where you intend to use the sampler. This pad protects the blades and provides a stable cutting base.



Image 3.2: Close-up view of the disc sampler, highlighting the blade mechanism.

4. OPERATING INSTRUCTIONS: MEASURING GSM

Follow these steps to accurately measure the Grams per Square Meter (GSM) of your material:

1. **Prepare the Material:** Lay the fabric, paper, or non-woven material flat and smooth on the rubber pad.
2. **Position the Sampler:** Place the disc sampler over the material, ensuring the area to be cut is free from wrinkles or imperfections.
3. **Unlock the Sampler:** Pull out the switch protection bolt on the side of the sampler, rotate it 90 degrees, and lock it into position. This exposes the blades for cutting.



Images 4.1 & 4.2: Unlocking the disc sampler's blades.

4. **Cut the Sample:** Hold the sampler firmly with one hand. With the other hand, press down on the plastic handle and rotate it 1-2 circles. This action cuts a precise 100cm² circular sample.



Images 4.3 & 4.4: Cutting a 100cm² sample using the disc sampler.

5. **Retrieve the Sample:** Carefully remove the sampler and retrieve the cut 100cm² sample.



Image 4.5: The 100cm² circular sample after cutting.

6. **Weigh the Sample:** Place the cut 100cm² sample onto the center of the electronic scale's weighing pan.

Allow the reading to stabilize.



Image 4.6: Weighing the cut sample on the electronic scale.

7. **Calculate GSM:** The scale displays the weight of the 100cm² sample in grams. To obtain the GSM value, multiply the displayed weight by 100. For example, if the scale reads 0.85g, the GSM is $0.85 * 100 = 85$ GSM.



Image 4.7: The final calculation step for determining GSM.

5. MAINTENANCE

5.1 Cleaning

- Wipe the scale and sampler with a soft, dry cloth. Do not use abrasive cleaners or immerse in water.
- Keep the weighing pan and surrounding area clean to prevent interference with readings.

5.2 Blade Replacement

- The double-edged blades in the sampler are consumable and will dull over time. Replace them when cutting becomes difficult or results in frayed edges.
- To replace, carefully unscrew the blade holders and insert new blades. Always handle blades with extreme caution.

5.3 Rubber Pad

- The rubber pad may develop an odor during transportation. Place it in a well-ventilated area before use to dissipate any smell.
- Replace the rubber pad if it becomes excessively worn or damaged, as this can affect cutting quality.

5.4 Storage

- Store the scale and sampler in a dry, stable environment, away from extreme temperatures, humidity, and direct sunlight.
- Keep the protective cover on the scale when not in use to prevent dust accumulation.



Image 5.1: Proper storage of the scale and sampler helps maintain their condition.

6. TROUBLESHOOTING

- **Inaccurate Readings:**
 - Ensure the scale is on a stable, level surface.
 - Check for drafts or vibrations in the environment.
 - Recalibrate the scale using the calibration weight.
 - Ensure the weighing pan is clean and free of debris.
- **Sampler Not Cutting Cleanly:**
 - Check if the blades are dull and require replacement.

- Ensure the rubber pad is not excessively worn or damaged.
 - Verify the sampler is pressed down firmly and rotated completely.
- **Scale Not Turning On:**
 - Check the power adapter connection to both the scale and the electrical outlet.
 - Ensure the power outlet is functional.

7. SPECIFICATIONS

7.1 Electronic Scale Specifications

Feature	Detail
Model Number	YX-346
Capacity	100g
Accuracy (Division Value)	0.001g
Display Type	Digital
Power Supply	110V (AC Adapter)
Rated Power	1.5W
Use Ambient Temperature	-15°C to 40°C
Relative Humidity	55-75%
Windproof Cover Size	175 x 150 x 90mm
Disc Diameter (Weighing Pan)	90mm
Special Feature	High Precision Sensor, Large Display



Image 7.1: Technical specifications and dimensions of the electronic scale.

7.2 Disc Sampler Specifications

Feature	Detail
Product Name	Fabric Sampler
Cutting Area	100 cm ²
Cutting Thickness	0-2 mm
Machine Size	Φ165 x 130 mm
Blades	4 double-edged blades (installed)

Feature	Detail
Accessories	6mm thickness rubber pad



Image 7.2: Technical specifications and dimensions of the disc sampler.

8. SAFETY INFORMATION

- **Sharp Blades:** The disc sampler contains extremely sharp blades. Always handle with caution. Keep fingers clear of the cutting area.
- **Electrical Safety:** Use only the provided power adapter and ensure it is connected to a compatible power source (110V). Do not operate with damaged cords or plugs.
- **Children and Pets:** Keep the device out of reach of children and pets to prevent injury.
- **Disassembly:** Do not attempt to disassemble or repair the device yourself. Refer to qualified personnel for service.
- **Intended Use:** Use the device only for its intended purpose of measuring GSM of materials.

9. WARRANTY AND SUPPORT

Specific warranty details may vary. Please refer to the product packaging or your purchase documentation for warranty information. For technical assistance, troubleshooting, or inquiries regarding parts and service, please contact NEWTRY customer service. An email address for after-sale service may be located on the product itself or in accompanying documentation.

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