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avery berkel m202 scales

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Discover the Avery Berkel M202 Scales: Precision, Reliability, and Versatility for Modern Industries

When it comes to accurate weighing solutions, the **Avery Berkel M202 scales**have earned a reputation for blending cutting edge technology with rugged durability. Whether you're a laboratory researcher, a food production supervisor, or a small business owner, the M202 offers the precision and flexibility required to meet today's demanding standards. In this in depth guide, we'll explore every facet of the M202—from its core features and technical specifications to real world applications and maintenance best practices. By the end, you'll understand why this digital weighing scale stands out in a crowded market and how it can elevate your operations.

What Makes the Avery Berkel M202 Scales Stand Out?

The **Avery Berkel M202**is more than just a piece of equipment; it's a comprehensive solution designed for a wide range of professional environments. Its standout qualities include:

- Exceptional Accuracy – Precision down to 0.01 /g, ensuring reliable measurements for critical processes.
- Versatile Connectivity – USB, RS 232, and optional Bluetooth/Wi Fi modules for seamless integration into modern data workflows.
- Robust Build – Stainless steel platform and protective housing that withstands harsh industrial settings.
- Intuitive Interface – Large LCD display, programmable tare, and customizable print options for user-friendly operation.
- Compliance & Certification – Meets ISO 9001, IEC 60068, and other international standards, making it suitable for regulated industries.

These attributes combine to provide a scale that's not only accurate but also adaptable, durable, and future proof.

Key Features & Technical Specifications

Accuracy and Precision

At the heart of the M202 is its high resolution load cell, capable of delivering weight readings with a resolution of **0.01 /g**The scale's built in calibration routine ensures that this precision is maintained over time, making it ideal for applications where even milligram discrepancies matter—such as pharmaceutical compounding or analytical chemistry.

Weight Capacity

The M202 offers a range of **up to 200 /kg**n the standard model, with optional higher capacity variants available. This makes it suitable for everything from small laboratory samples to larger industrial components.

Display and Interface

- 7 digit LED display with backlight for low light conditions.
- Programmable tare function—reset the zero point after placing a container on the platform.
- Customizable unit options: grams, kilograms, pounds, ounces, and more.
- Print options via integrated thermal printer or external printer connectivity.

Connectivity Options

The M202 comes with a standard **USB 2.0** port for direct computer integration, and an **RS 232** serial port for legacy systems. For modern workflows, optional **Bluetooth Low Energy (BLE)** or **Wi Fi** modules allow wireless data transfer to mobile devices or cloud platforms.

Durability & Build Quality

Constructed with **stainless steel** for the weighing platform and a protective housing, the scale can endure dusty, humid, or even slightly corrosive environments. The design also incorporates an impact resistant base to protect against accidental drops.

Compliance & Certification

The M202 meets **ISO 9001** quality management, **IEC 60068** environmental testing, and **ANSI B61.9** for laboratory balances. These certifications give users confidence that the scale will perform reliably in regulated settings.

Industries and Applications That Thrive With the M202

While the M202's versatility means it can be used in countless scenarios, here are some of the most common use cases:

Food & Beverage

From ingredient batching in small cafés to large scale production lines, the M202's precise tare function and quick response display help streamline operations. Its stainless steel platform resists spills and maintains cleanliness standards required by the FDA and other food safety regulators.

Pharmaceutical & Biotech

Accurate weighing of active pharmaceutical ingredients (APIs) and excipients is critical. The M202's sub gram resolution and ISO certification make it a trusted tool for compounding, formulation, and quality control labs.

Manufacturing & Engineering

In manufacturing, the scale assists with material stock management, component assembly, and quality inspections. Its robust construction ensures reliability on busy production floors.

Research Laboratories

From chemistry to biology, research labs demand both accuracy and flexibility. The M202's ability to connect to laboratory information management systems (LIMS) and its support for custom software integration make it a valuable asset for data driven research.

Retail & Wholesale

Retailers can use the M202 for inventory management, product labeling, and price verification. Its easy to read display and quick tare function streamline checkout processes.

Choosing the Right Avery Berkel M202 Scale for Your Needs

Although the M202 is a versatile model, selecting the right configuration depends on your specific requirements. Consider the following factors:

1. Load Range – Ensure the scale's capacity aligns with the heaviest item you'll weigh.
2. Accuracy Requirements – For applications that require sub milligram precision, opt for a model with the highest resolution.

3. Operating Environment – In dusty or humid settings, choose a scale with a sealed housing and stainless steel platform.
4. Connectivity – If you need wireless data capture, ensure the model includes Bluetooth or Wi Fi modules.
5. Software Compatibility – Verify that the scale's drivers and APIs integrate smoothly with your existing software stack.

When comparing the M202 to other Avery Berkel models, look at features such as display size, tare functionality, and available connectivity options. The M202 often provides a balanced mix of accuracy, ease of use, and durability at a competitive price point.

Installation and Setup Guide

Unboxing and First Time Setup

1. Remove the scale from its packaging and verify that all accessories—USB cable, power adapter, user manual, and calibration weights—are present.
2. Place the scale on a flat, stable surface. If you're in a laboratory setting, use a vibration isolated platform for maximum accuracy.
3. Connect the power adapter to the scale's input port and plug it into a grounded outlet. The LED indicator will confirm power status.

Calibration Procedure

Calibration ensures that the scale's readings are accurate and repeatable. Follow these steps:

1. Place the scale on a level surface and allow it to warm up for 5 minutes.
2. Use the provided calibration weights (typically 100 /g, 500 /g, and 1 /kg). Place each weight on the platform and wait for the display to stabilize.
3. Enter calibration mode via the Menu button. The scale will prompt you to confirm the weight value.
4. After the final weight is confirmed, the scale will automatically adjust its internal calibration curve.
5. Verify the calibration by placing a known weight and confirming the displayed value matches the expected reading.

Software Setup

To integrate the M202 with your computer or data system, install the Avery Berkel **ScaleConnect**software or any compatible driver. The software supports:

- Real time data capture.
- Custom data logging templates.
- Remote calibration via USB or serial port.
- Export options (CSV, XML, JSON).

Maintenance Tips

Regular maintenance keeps the M202 performing at its best:

- Clean the weighing platform with a soft, lint free cloth. Avoid harsh chemicals that could corrode the stainless steel.
- Check for loose screws or mounting hardware every 6 months.
- Recalibrate at least once a quarter or whenever you notice drift.
- Inspect the display and buttons for wear; replace if necessary.

Troubleshooting Common Issues

Power Problems

If the scale does not power on, verify the outlet is functioning and the adapter is properly connected. Check the LED indicator for any error codes and consult the user manual for specific troubleshooting steps.

Display Errors

Erratic or blank displays may indicate a loose connection or a damaged display module. Try resetting the scale by removing the power source for 30 seconds and reconnecting.

Accuracy Drift

Accuracy drift can result from temperature changes, vibration, or aging load cells. Recalibrate the scale and ensure it’s placed on a vibration isolated surface. If drift persists, contact Avery Berkel support.

Connectivity Problems

For USB or serial connections, ensure the correct drivers are installed. For wireless modules, confirm that the scale is within range of the router or Bluetooth hub and that the firmware is up to date.

Frequently Asked Questions

Does the M202 come with a warranty?

Yes, Avery Berkel offers a standard two year limited warranty covering manufacturing defects and component failures.

Can I use the M202 in a chemical lab?

While the stainless steel platform is resistant to many chemicals, it’s best to verify compatibility with specific reagents. For highly corrosive environments, consider a scale with a fully sealed housing.

Is the scale suitable for outdoor use?

The M202 is designed for indoor industrial and laboratory use. Outdoor exposure to extreme temperatures, moisture, or direct sunlight may compromise accuracy and durability.

What software options are available?

Avery Berkel provides ScaleConnect, but the scale also supports generic serial drivers and can be integrated into LIMS or ERP systems via custom API calls.

Conclusion

The **Avery Berkel M202 scales**embody the perfect blend of precision, durability, and connectivity required by modern professionals across diverse industries. From the meticulous demands of pharmaceutical compounding to the high volume needs of food production, the M202 delivers reliable, accurate measurements that help streamline workflows, reduce waste, and ensure compliance with stringent regulations.

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