

CLOCKWISE®
TOOLS

DIBR-0105
DIGITAL
DAIL
INDICATOR



Clockwise Tools DIBR-0105 Digital Dail Indicator User Manual

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Clockwise Tools DIBR-0105 Digital Dail Indicator



INTRODUCTION

The Clockwise Tools DIBR-0105 Digital Dial Indicator is a very accurate measuring tool made for people who want their tools to last a long time and work well. Built from stainless steel, this digital clock indicator has a great 1-inch range and a measurement accuracy of ± 0.001 inch (0.03mm), which makes it perfect for people who work in mechanical engineering, machining, and other fields that need to be precise. This indicator gives you very exact results whether you're checking parts or measuring machine tools. The Clockwise Tools DIBR-0105 was released on February 1, 2017, and costs \$64.13. It is a great deal for people who want a reliable tool that will last a long time. This digital dial indicator is made by Clockwise Tools Inc., which is known for making high-quality items. It is made to last and can handle tough work conditions. It's made for both pros and hobbyists, and it combines advanced features with features that make it easy for anyone to use, no matter how much experience they have.

SPECIFICATIONS

Brand	Clockwise Tools
Material	Stainless Steel
Range	1 Inch
Measurement Accuracy	±0.001 Inch / 0.03 mm
Price	\$64.13
Product Dimensions	4.88 x 2.19 x 1 inches
Weight	4.04 Pounds
Item Model Number	DIBR-0105
Date First Available	February 1, 2017
Manufacturer	Clockwise Tools Inc.
Warranty	1 Year

WHAT'S IN THE BOX

- Digital Dial Indicator
- Battery
- User Manual



FEATURES

- **High Resolution:** It has a resolution of 0.0005 inches (0.01 mm), which lets you take accurate readings and do detailed work.
- **Wide Range:** It can measure lengths from 0 to 1 inch (0 to 25.4 mm), so it can be used for a lot of different things.
- **High Accuracy:** It can measure with an error of ± 0.001 inches (0.03 mm), so you can be sure of the results.
- **Converting Between Inches and Metric Units:** You can easily switch between inches and metric units to suit your needs.



inch



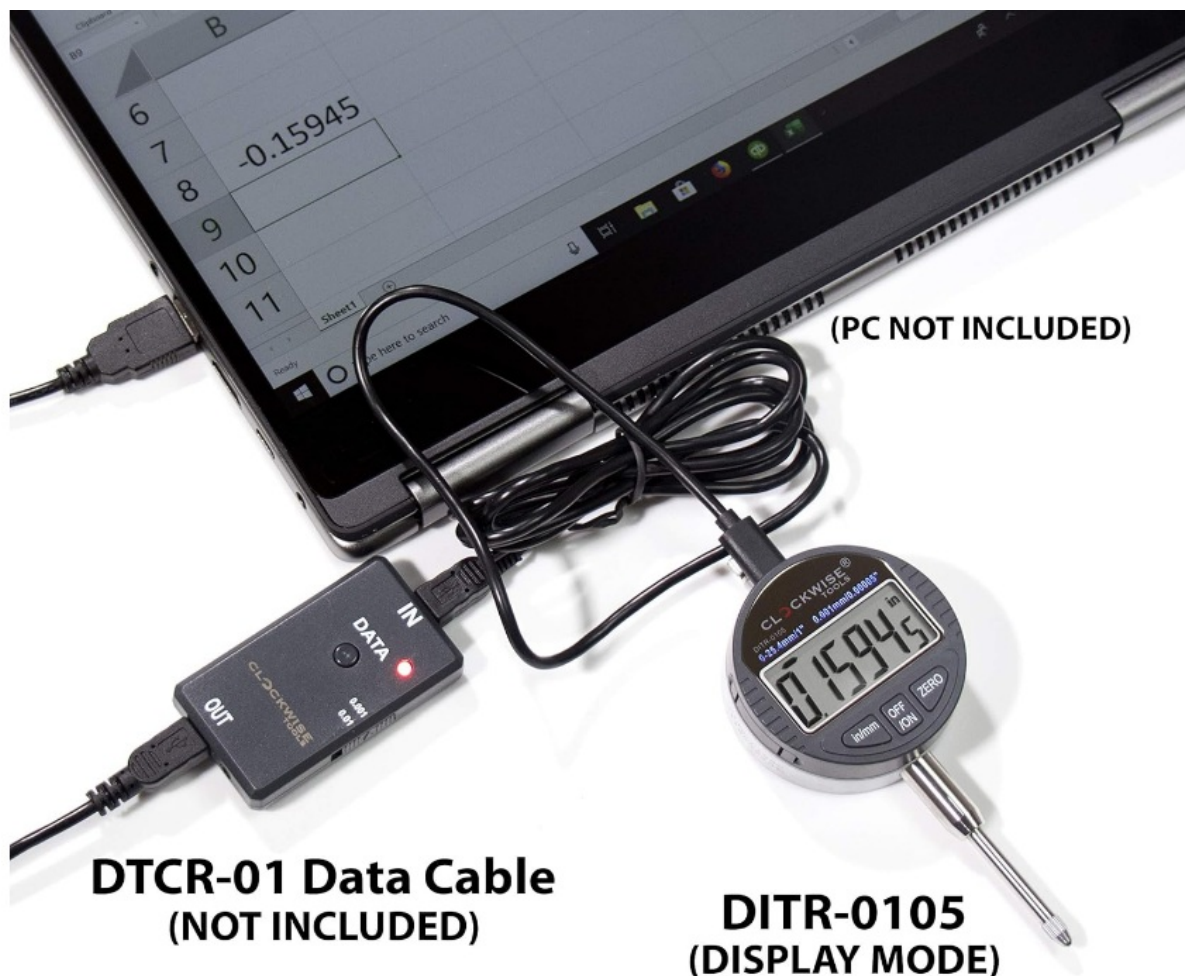
mm



- **Extra-Large LCD Screen:** The 1.6" x 0.7" LCD screen makes it easy to see and read the results.
- **Long Battery Life:** It is powered by a 3V CR2032 battery, which gives it power for a long time.
- **Magnetic Base:** The built-in magnetic base can hold up to 176 lbs of pull, which makes it stable and safe to use while measuring.
- **Auto Off Function:** The sign turns off itself after 5 to 7 minutes of not being used, which saves battery life.
- **Data Transfer:** It has RS232 data transfer features that make it easy to connect to a PC using the Clockwise Tools DTCR-01 cable (sold separately).
- With two back options—a flat back and a lug back—and a hole size of 6.5 mm, this mount can be used in a variety of ways.
- **Calibration Certificate That Is Easy to Use:** It comes with a calibration certificate from the maker, so you know it's accurate right away.
- **Threaded Tip:** The stem has a 3/8" diameter and a UNF 4-48 threaded tip, so it can be used with a lot of different tools.
- **Design that fits in your hand easily:** The product measures 4.88 x 2.19 x 1 inches, making it small and easy to carry.
- **Durable Construction with Stainless Steel:** Stainless steel was used to make the building last and be resistant to wear and tear in industry settings.
- **One-Year promise:** This comes with a one-year promise that lets you know that the tool is of good quality and will last.

SETUP GUIDE

- **Open the Digital Indicator's box:** Take the DIBR-0105 Digital Dial Indicator out of its box very carefully.
- **Putting in the Battery:** To power the device, open the battery section and put in the CR2032 battery.
- **Pick the Units of Measurement:** Depending on what kind of measurements you need for your job, you can choose between inch and metric units.
- **Attach the Magnetic Base:** To keep the digital display stable while measuring, mount it on the magnetic base stand.
- To change the position of the mounting, loosen the tightening screw and then place the indicator stem into the base. Tighten the screw to secure the position.
- **Check the Calibration of the Indicator:** Look at the calibration certificate from the maker to make sure the indicator is correct from the start.
- **Set the Zero Point:** Before you start measuring, press the zero button to return the scale to zero.
- **Place the Indicator:** For accurate readings, make sure the measuring probe is touching the work area in the right way.
- **Change the Measurement Range:** Make sure that the 0–1-inch measuring range works for your needs.
- If you need to send data, connect the indicator to a PC using the Clockwise Tools DTCR-01 cable and use RS232 Data send.



- **Choose the “Auto Off” function:** To save battery life, make sure the “Auto Off” function is set to turn off the device itself after 5 to 7 minutes of inactivity.

- **Use the Lug Back Option:** If you need more mounting options, you can use the lug back option to secure it with a 6.5 mm hole size.
- **Check the Measurement Display:** While you are measuring, keep an eye on the big LCD screen to make sure the numbers are clear and correct.
- **Move the Base:** If you need to, move the magnetic base to make sure it stays in place while you take readings.
- **Make Sure the Threads Are Correct:** To avoid measurement mistakes, double-check that the threaded tip is mounted properly.

CARE & MAINTENANCE

- **Keep it Clean:** Use a soft cloth to wipe down the digital display and magnetic base every so often to get rid of dirt, dust, and grease.
- **Avoid Exposure to Moisture:** Keep water or moisture out of the indicator so that it doesn't get damaged and stops working properly.
- **Keep it in a Dry Place:** When not in use, keep the tool somewhere dry and cool to keep the steel parts from rusting or corrosion.
- **Battery Care:** Check the battery level every so often, and change the CR2032 battery when the indicator starts to work less well.
- **Calibrate Often:** Make sure the indicator's accuracy stays the same over time by recalibrating it often.
- **Avoid Impact:** Be careful when handling the tool so you don't drop it or hit it hard, which could damage it inside.
- **Check Magnetic Base:** Look over the magnetic base for dirt or other things that could weaken its pull. If you need to, clean it.
- **Tighten the Screws Correctly:** When mounting or changing, make sure the screws are just tight enough to hold the indicator in place without being too tight, which could damage it.
- **Keep away from extreme temperatures :** When you store the device, keep it away from places with extreme temperatures that could affect how accurate the numbers are or how long the battery lasts.
- **Use the Right Mounting:** Make sure the indicator is properly attached to the base so it doesn't move while you're measuring, which could cause mistakes.
- **Change Worn Parts:** If any parts (like the probe tip) look worn, you should change them to keep the accuracy of the measurements.
- **Stay Out of Direct sunshine:** Do not leave the indicator out in direct sunshine, as the UV rays can break down the materials over time.
- **Use With Compatible Accessories:** To avoid connection problems, only use compatible cords, like the DTCR-01, to move data.
- **Keep the Threaded Tip Clean:** Make sure you clean the threaded tip often so it fits smoothly on different tools or mounts.
- **Before you leave, make sure the sign is off:** This is especially important if you're not using the auto-off feature. This will help the battery last longer.

TROUBLESHOOTING

Issue	Solution
The display is not turning on	Check the battery installation and replace it if needed.
Inaccurate measurements	Calibrate the dial indicator and ensure the correct zero setting.
Measurement jumps erratically	Ensure the indicator is free of debris or obstructions.
Battery life is short	Replace the battery with a new one and check the power contacts.
The display is faint or unclear	Clean the display to remove any dirt or smudges.
Buttons not responding	Clean the buttons and ensure there's no dirt or debris.
Reading is out of range	Ensure the measurement is within the tool's specified range.
Dial is hard to turn	Lightly lubricate the dial to ensure smooth movement.
Zero setting isn't accurate	Recalibrate the indicator to reset the zero point.
Tool feels unstable	Ensure the indicator is placed on a stable surface.
The LCD screen is blank	Check the battery and ensure it is installed correctly.
Measurement not consistent	Verify that the surface you're measuring is clean and flat.
No movement in the needle	Inspect for blockages or mechanical issues in the internal parts.
Difficult to switch between units	Ensure the unit toggle button is functioning properly and is not stuck.
The indicator is not holding the position	Check the locking mechanism for proper engagement.

PROS & CONS

Pros:

1. High precision with ± 0.001 inch accuracy.
2. Durable stainless steel construction for longevity.
3. Affordable pricing at \$64.13 for its features.
4. Ideal for mechanical engineering and machining applications.
5. Easy-to-read digital display for quick measurements.

Cons:

1. A limited 1-inch measurement range might not be suitable for larger projects.
2. Battery life may decrease with extensive use.
3. Requires careful calibration for maximum accuracy.
4. Buttons may become unresponsive with frequent use.
5. The screen may be difficult to read under low-light conditions.

WARRANTY

The **Clockwise Tools DIBR-0105 Digital Dial Indicator** comes with a **1-year limited warranty**. This warranty

Covers any manufacturing defects or issues with the product under normal usage conditions. If you encounter any problems with the indicator, Clockwise Tools will repair or replace the product at no additional cost within the first year from the purchase date. Be sure to keep the proof of purchase and follow the warranty guidelines to ensure a smooth claim process. This warranty offers peace of mind, knowing that the manufacturer stands behind the quality of their product.

FREQUENTLY ASKED QUESTIONS

What brand manufactures the DIBR-0105 Digital Dial Indicator?

The Clockwise Tools DIBR-0105 is manufactured by Clockwise Tools, a reputable brand in precision measuring instruments.

What is the material of the Clockwise Tools DIBR-0105 Digital Dial Indicator?

The Clockwise Tools DIBR-0105 is made of stainless steel, offering durability and resistance to corrosion.

What is the range of the Clockwise Tools DIBR-0105 Digital Dial Indicator?

The Clockwise Tools DIBR-0105 has a measurement range of 1 inch, ideal for smaller and detailed measurements.

What is the measurement accuracy of the Clockwise Tools DIBR-0105?

The Clockwise Tools DIBR-0105 offers a high accuracy of ± 0.001 inch (0.03 mm), ensuring precise measurements.

What are the dimensions of the Clockwise Tools DIBR-0105 Digital Dial Indicator?

The Clockwise Tools DIBR-0105 measures 4.88 x 2.19 x 1 inches, making it compact and easy to handle.

How much does the Clockwise Tools DIBR-0105 weigh?

The Clockwise Tools DIBR-0105 weighs 4.04 pounds, providing stability during use.

When was the Clockwise Tools DIBR-0105 first available?

The Clockwise Tools DIBR-0105 was first available on February 1, 2017.

What is the model number of the Clockwise Tools Digital Dial Indicator?

The model number for the Clockwise Tools DIBR-0105 is DIBR-0105.

What is the price of the Clockwise Tools DIBR-0105?

The Clockwise Tools DIBR-0105 is priced at \$64.13, offering a balance of quality and affordability.

What warranty does the Clockwise Tools DIBR-0105 come with?

The Clockwise Tools DIBR-0105 comes with a 1-year warranty, ensuring reliable performance.

Who manufactures the DIBR-0105 Digital Dial Indicator?

The Clockwise Tools DIBR-0105 is manufactured by Clockwise Tools Inc., a trusted company in measurement tools.

What types of measurements can be made with the Clockwise Tools DIBR-0105?

The Clockwise Tools DIBR-0105 is ideal for precise linear measurements, commonly used in machining, quality control, and engineering tasks.

How accurate is the measurement on the Clockwise Tools DIBR-0105?

The Clockwise Tools DIBR-0105 offers an accuracy of ± 0.001 inch (0.03 mm), ensuring high precision in

measurements.

What is the maximum measurement range of the Clockwise Tools DIBR-0105?

The Clockwise Tools DIBR-0105 has a maximum measurement range of 1 inch, making it ideal for small and detailed measuring tasks.

What industries can benefit from the Clockwise Tools DIBR-0105 Digital Dial Indicator?

The Clockwise Tools DIBR-0105 is useful in industries such as machining, automotive, aerospace, and manufacturing, where high-precision measurements are required.

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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