Neoteck NTK021 Electronic Digital Dial Indicator Instruction Manual

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Neoteck NTK021 Electronic Digital Dial Indicator

INTRODUCTION

The Neoteck NTK021 Electronic Digital Dial Indicator is a precise measuring tool made for getting correct numbers in a range of engineering and mechanical tasks. Because it is made of metal, this dial indicator is strong and lightweight—it only weighs 5.92 ounces. It can measure up to 25.4 millimeters and is very accurate, down to 0.01 mm (0.0005 inch). This makes it an important tool for workers who need to be very precise in their work. This tool gives you accurate and reliable results every time, whether you're measuring machine parts, metal parts, or anything else. The Neoteck NTK021 was released on August 8, 2016, and costs only $23.99, making it a great choice for both pros and hobbyists. It works with two LR44 batteries and is both useful and easy to use. Because it was made by Neoteck, a well-known brand in measuring tools, the NTK021 is a good choice for anyone who needs high-quality measuring tools.

SPECIFICATIONS

Brand	Neoteck
Material	Aluminum
Range	25.4 Millimeters
Measurement Accuracy	0.01 mm (0.0005 Inch)
Product Dimensions	5.12 x 0.83 x 0.94 inches
Weight	5.92 ounces
Item Model Number	NTK021
Batteries Required	2 LR44 batteries
Date First Available	August 8, 2016
Manufacturer	Neoteck
Price	$23.99

WHAT'S IN THE BOX

- Digital Dial Indicator
- Manual

PRODUCT OVERVIEW

FEATURES

- **Large LCD Display**: It has a big, clear LCD screen with three numbers for accurate readings.
- **High Resolution**: It has a high resolution of up to 0.01 mm (0.0005 inches), which means that measurements are very exact.
- **Range of Measurements**: It has a range of measurements from 0 to 25.4 mm (0 to 1 inch), which makes it useful for measuring a variety of short distances.

- **Inch-to-metric conversion**: Units can be switched between metric (mm) and imperial (inch), giving you options for different measurement systems.
- The zero setting function lets you set the scale to zero, which makes sure that the readings are accurate from a certain point of reference.
- **Battery Compartment**: It has a place for an LR44 battery that is easy to change so it can be used all the time.
- **Durable Aluminum Alloy Construction**: The body is made of a strong aluminum alloy that makes it last for a long time in industrial settings.
- **Back Cover Included**: It comes with a back cover that can be taken off and has a hole diameter of 6.5 mm, so it can be used with different magnetic base holders.
- **Small Size**: The dial indicator is small and easy to use. Its measurements are 5.12 x 0.83 x 0.94 inches.
- **Lightweight**: At 5.92 ounces, it's very light and easy to carry, making it perfect for measures on the go.
- **Multiple Uses**: This tool is great for mechanical, industrial, and lab settings where precise readings are important.
- **Easy Calibration**: It's easy to calibrate to get accurate results, especially when doing very specific jobs like dial testing.
- **Low Power Consumption**: LR44 batteries are used, which provide long-lasting power and efficiency for extended use.
- Reasonably priced at $23.99, it's a great deal for a high-resolution dial display.

- **Auto-Off Feature**: Turns off by itself after a while of not being used to save battery life.

SETUP GUIDE

- **Open the Indicator's box**: Take the Neoteck NTK021 Digital Dial Indicator out of its box.
- **Putting in the Battery**: To power the device, open the battery section and put in two LR44 batteries that come with it.
- **Power On**: To turn on the digital dial indicator, press the power button and look at the screen.
- **Choose the Unit of Measurement**: You can use the unit switch to switch between millimeters (mm) and inches.
- **Zero Setting**: Press the zero-set button to reset the number to zero. This makes sure that the measurements are accurate from a reference point.
- **Calibration**: If you need to, use a calibration standard to make sure the indicator is reading correctly.
- **Mount Rear Cover**: If needed, connect the rear cover that can be taken off and used with different magnetic base holders.
- **Mount on Magnetic Stand**: If you want to take accurate readings, put the dial indicator on a magnetic base holder to keep it stable.
- **Adjust the Measuring Probe**: Make small adjustments to the measuring probe to make sure it touches the work area correctly.

- **Set Desired Range**: Make sure the device is in the range of 0 to 25.4 mm for accurate measurements.
- **Start Measuring**: Press the probe against the surface and read the number that shows up on the LCD screen.
- **Switch Between Modes**: You can switch between different measurement modes (like hold and constant) whenever you need to.
- **Set Resolution**: For the best accuracy, make sure the resolution is set to 0.01 mm, or 0.0005 inch.
- **Check Battery Levels**: Make sure the batteries are always charged by checking the battery monitor.
- **Turn Off After Use**: To save battery life, turn off the dial display when you're done measuring.

CARE & MAINTENANCE

- To keep it clean, use a soft cloth to wipe the scale indicator clean after each use.
- **Keep Dampness Out**: Keep dampness out of the device so that it doesn't hurt the electronics or the screen.
- It's best to keep the clock indicator in a dry, cool place so that the parts don't rust or get damaged.
- **Handle with Care**: Be careful whenever you touch the device so you don't hurt the LCD screen or the sensitive probe.
- **Avoid Impact**: Keep the indicator away from falls or hard hits, as they could damage the inside.
- **Check the Batteries**: Make sure the batteries aren't corroded and change them when they lost power.
- **Use a Soft Cloth**: To clean the device, use a microfiber cloth instead of rough materials that could scratch the screen.
- **Avoid Direct Sunshine**: Keep the dial indicator out of direct sunshine when not in use, as long-term exposure can damage the screen.
- **Calibrate Periodically**: Make sure the device keeps giving accurate data by recalibrating it every so often.
- **Check for Wear on the Tool**: Look for any damage or wear on the measuring tool that could make it less accurate.
- **Change Worn Parts**: To keep the accuracy, change the probe and any other parts that show signs of wear right away.
- **Use with Stands That Are Compatible**: To keep the dial indicator from breaking, only use it withstand and magnetic base holds that are compatible.
- **Turn Off When Not In Use**: To save battery life, always turn off the sign when it's not in use.
- **Avoid Extreme Temperatures**: Do not put the indicator in temperatures that are too high or too low; this can damage both the electronics and the display.
- **Keep in a Safe Place**: Keep the digital dial indicator in a safe place when not in use to keep it from getting damaged by chance.

TROUBLESHOOTING

Issue	Solution
Display is not turning on	Check the battery installation and replace 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 LR44 batteries with fresh ones.
The display is faint or unclear	Clean the display to remove any dirt or smudges.
The indicator not holding the position	Tighten the locking mechanism for stability.
Display flickers	Ensure the battery contacts are clean and make a good connection.
Buttons not responding	Check for dirt or debris under the buttons, and clean as needed.
Reading is out of range	Ensure the measurement is within the tool's specified range.
Dial is hard to turn	Apply light lubrication to the mechanism to ensure smooth operation.
Zero setting isn't accurate	Recalibrate the indicator to reset the zero point.
The tool is not responding to inputs	Ensure the battery is inserted correctly and is fully charged.
Measurement isn't consistent	Verify the surface you're measuring is flat and clean.
The LCD screen is blank	Replace the batteries and check the connections.
No movement in the needle	Check the internal mechanism for blockages or damage.

PROS & CONS

Pros:

1. Accurate measurements with **0.01 mm** precision.
2. Lightweight aluminum construction for easy handling.
3. Affordable pricing at **$23.99**, offering great value.
4. Ideal for various mechanical and engineering applications.
5. Powered by **2 LR44 batteries**, providing long-lasting power.

Cons:

1. May require calibration for optimal accuracy.
2. Limited measurement range of **25.4 mm**.
3. Not ideal for very large or bulky measurements.
4. The display might be hard to read in low light without backlighting.
5. Requires battery replacement, which could be inconvenient for continuous use.

WARRANTY

The **Neoteck NTK021 Electronic Digital Dial Indicator** comes with a **1-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. If any issues arise within the first year, the manufacturer will repair or replace the product free of charge, provided the terms and conditions of the warranty

are met. Be sure to keep your proof of purchase to ensure warranty coverage.

FREQUENTLY ASKED QUESTIONS

What is the brand of the NTK021 Electronic Digital Dial Indicator?

The Neoteck NTK021 is a high-quality electronic digital dial indicator from the trusted brand Neoteck.

What is the measurement range of the Neoteck NTK021?

The Neoteck NTK021 has a measurement range of 25.4 millimeters (1 inch), making it ideal for precise measurements.

What is the measurement accuracy of the Neoteck NTK021?

The Neoteck NTK021 offers an impressive measurement accuracy of 0.01 mm (0.0005 inches) for highly precise readings.

What are the product dimensions of the Neoteck NTK021?

The Neoteck NTK021 has compact dimensions of 5.12 x 0.83 x 0.94 inches, ensuring easy handling and storage.

What is the weight of the Neoteck NTK021 Digital Dial Indicator?

The Neoteck NTK021 weighs just 5.92 ounces, making it lightweight and easy to carry.

What batteries does the Neoteck NTK021 require?

The Neoteck NTK021 requires 2 LR44 batteries for operation.

When was the Neoteck NTK021 first available?

The Neoteck NTK021 was first available on August 8, 2016.

Who is the manufacturer of the Neoteck NTK021?

The Neoteck NTK021 is manufactured by Neoteck, a reputable company in the measurement tools industry.

What is the price of the Neoteck NTK021 Digital Dial Indicator?

The Neoteck NTK021 is priced at $23.99, offering great value for its precision and functionality.

How accurate are the readings on the Neoteck NTK021?

The Neoteck NTK021 provides highly accurate readings with 0.01 mm (0.0005 inch) accuracy.

How portable is the Neoteck NTK021?

The Neoteck NTK021 is compact and lightweight, weighing only 5.92 ounces, making it highly portable.

What is the display type on the Neoteck NTK021?

The Neoteck NTK021 features a digital display, making it easy to read measurements clearly.

How is the Neoteck NTK021 powered?

The Neoteck NTK021 is powered by 2 LR44 batteries, providing reliable and consistent performance.

What features make the Neoteck NTK021 a good choice for professionals?

The Neoteck NTK021 stands out for its aluminum construction, high accuracy (0.01 mm), and easy-to-read digital display, making it an excellent choice for professionals in need of precise measurements.

Why won’t my Neoteck NTK021 Electronic Digital Dial Indicator turn on?

Ensure the Neoteck NTK021 Electronic Digital Dial Indicator has fresh batteries inserted correctly. If the batteries are low or improperly placed, the device won’t power on. Try replacing the batteries or re-inserting them to see if this resolves the issue.

References

- **User Manual**

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