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iGaging 100-700-04-I

iGaging IP54 Absolute Origin 0-4" Digital Electronic Caliper Instruction Manual

Model: 100-700-04-I | Brand: iGaging

1. Introduction

This manual provides detailed instructions for the proper use, maintenance, and care of your iGaging IP54 Absolute Origin 0-4" Digital Electronic Caliper. Designed for precision measurement, this caliper features IP54 protection against water drops and dust, ensuring reliable performance in various environments. Its Absolute Origin function allows for immediate measurement without the need for re-zeroing after power-off, enhancing efficiency and accuracy.



The iGaging IP54 Absolute Origin Digital Electronic Caliper, shown with its protective storage case, is designed for precise measurements.

2. What's in the Box

Upon opening your iGaging Digital Electronic Caliper package, you should find the following items:

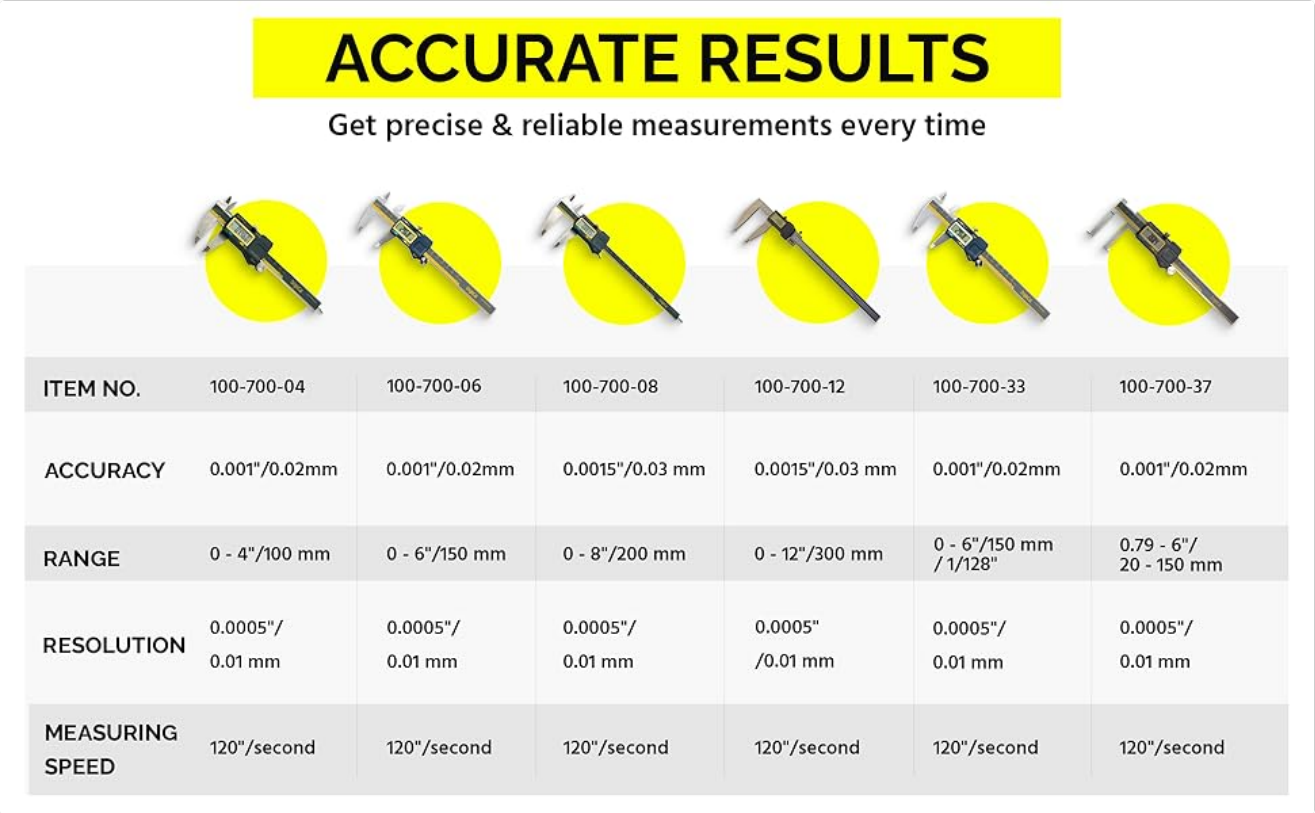
- iGaging OriginCal Absolute Digital Caliper
- Protective Shop Case
- 3V CR2032 Battery (pre-installed)
- Spare 3V CR2032 Battery
- Small Phillips Screwdriver for battery compartment
- Instruction Manual



This image illustrates the complete package contents: the OriginCal Absolute Digital Caliper, a durable protective case, a 3V CR2032 battery, and a comprehensive instruction manual.

3. Specifications

Feature	Specification
Model Number	100-700-04-I
Measurement Range	0-4 inches / 0-100 mm
Measurement Accuracy	+/-0.001 inches / +/-0.02 mm
Resolution	0.0005 inches / 0.01 mm
Measuring Speed	120 inches/second
Protection Rating	IP54 (Water drop and dust resistant)
Material	Stainless Steel
Battery Type	CR2032 (3V Lithium Coin Cell)
Product Dimensions	4 x 4 x 0.1 inches
Weight	10.86 ounces
Manufacturing Standard	Meets DIN Standard 862; ISO certified manufacturing



ITEM NO.	100-700-04	100-700-06	100-700-08	100-700-12	100-700-33	100-700-37
ACCURACY	0.001"/0.02mm	0.001"/0.02mm	0.0015"/0.03 mm	0.0015"/0.03 mm	0.001"/0.02mm	0.001"/0.02mm
RANGE	0 - 4"/100 mm	0 - 6"/150 mm	0 - 8"/200 mm	0 - 12"/300 mm	0 - 6"/150 mm / 1/128"	0.79 - 6"/ 20 - 150 mm
RESOLUTION	0.0005"/ 0.01 mm	0.0005"/ 0.01 mm	0.0005"/ 0.01 mm	0.0005" /0.01 mm	0.0005"/ 0.01 mm	0.0005"/ 0.01 mm
MEASURING SPEED	120"/second	120"/second	120"/second	120"/second	120"/second	120"/second

A detailed table outlining the technical specifications for different iGaging caliper models, including their accuracy, measurement range, resolution, and measuring speed.

4. Setup

4.1. Battery Installation

Your caliper comes with a battery pre-installed. If you need to replace the battery or install the spare:

1. Locate the battery compartment cover on the digital display unit.
2. Use the provided small Phillips screwdriver to loosen the screw on the battery cover.
3. Carefully remove the cover.
4. Insert a new CR2032 (3V) battery with the positive (+) side facing up.
5. Replace the battery cover and tighten the screw.

4.2. Initial Power On

Press the **ON/OFF** button to power on the caliper. The display should light up and show '0.0000' or '0.00' depending on the selected unit.



The iGaging digital caliper is provided with a custom-fit, foam-lined protective case to ensure its safety and longevity.

5. Operating Instructions

5.1. Power On/Off

- Press **ON/OFF** to turn the caliper on or off.
- The caliper features an auto-off function to conserve battery life.

5.2. Unit Conversion

- Press the **mm/in** button to switch between millimeters (mm) and decimal inches (in).
- Note: This model does not support fractional inch display.

5.3. Zeroing the Caliper (Absolute Origin)

The Absolute Origin feature allows the caliper to retain its zero position even after being powered off. To set a

temporary zero point at any position:

- Close the jaws completely and ensure they are clean.
- Press the **ORIGIN** button. The display will show '0.0000' or '0.00'.
- You can also press **ORIGIN** at any point to set a relative zero for differential measurements.

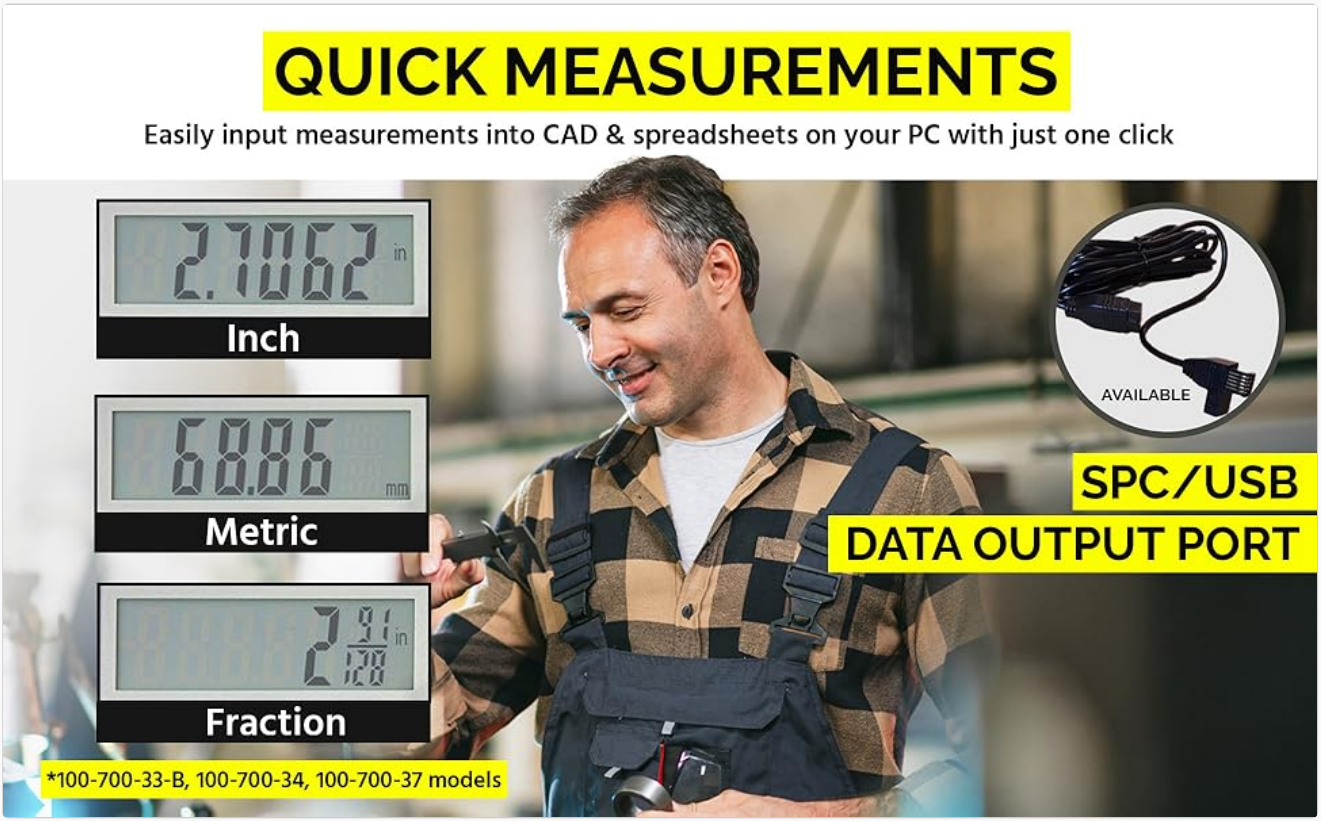
5.4. Taking Measurements

Move the sliding jaw using the thumb wheel. The measurement will be displayed instantly on the digital screen.

- **Outside Measurement:** Place the object between the main jaws.
- **Inside Measurement:** Use the small jaws on top to measure internal dimensions.
- **Depth Measurement:** Extend the depth rod from the end of the caliper into a hole or recess.
- **Step Measurement:** Use the step at the end of the main beam to measure steps or offsets.

5.5. Locking Screw

The locking screw located on the top of the sliding jaw can be tightened to fix the jaw in position, useful for transferring measurements or maintaining a specific setting.



The caliper's digital display can show measurements in decimal inches or millimeters. An optional SPC/USB data output port is available for connecting to a computer.

6. Maintenance

6.1. Cleaning

- Although the caliper has an IP54 rating for water and dust resistance, it is recommended to wipe the measuring surfaces and the main beam with a clean, dry, lint-free cloth after each use.
- Avoid using solvents or harsh chemicals, as they may damage the electronic components or the finish.

6.2. Storage

- Always store the caliper in its protective case when not in use to prevent damage from impacts or contaminants.
- Store in a dry environment, away from direct sunlight and extreme temperatures.

6.3. Battery Replacement

Refer to section 4.1 for detailed instructions on battery replacement. Replace the battery when the display becomes dim or erratic.

7. Troubleshooting

Problem	Possible Cause	Solution
Display is blank or dim	Low or dead battery	Replace the battery (see section 4.1).
Inaccurate readings	Dirt or debris on measuring surfaces or beam	Clean the measuring jaws and the main beam thoroughly.
Inaccurate readings	Caliper not properly zeroed	Close the jaws completely and press the**ORIGIN** button to re-zero.
Display shows error message	Internal electronic issue	Remove and reinsert the battery. If the problem persists, contact customer support.

8. Warranty Information

The iGaging IP54 Absolute Origin Digital Electronic Caliper (Model 100-700-04-I) comes with a**2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, abuse, unauthorized modification, or normal wear and tear.

9. Customer Support

For any questions, technical assistance, or warranty claims regarding your iGaging Digital Electronic Caliper, please contact iGaging customer support. Refer to the contact information provided on the product packaging or the official iGaging website for the most up-to-date support channels.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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