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INSIZE 1108-150

INSIZE 1108-150 Electronic Caliper User Manual

Model: 1108-150

INTRODUCTION

This manual provides instructions for the safe and effective operation and maintenance of your INSIZE 1108-150 Electronic Caliper. Please read this manual thoroughly before use and retain it for future reference.

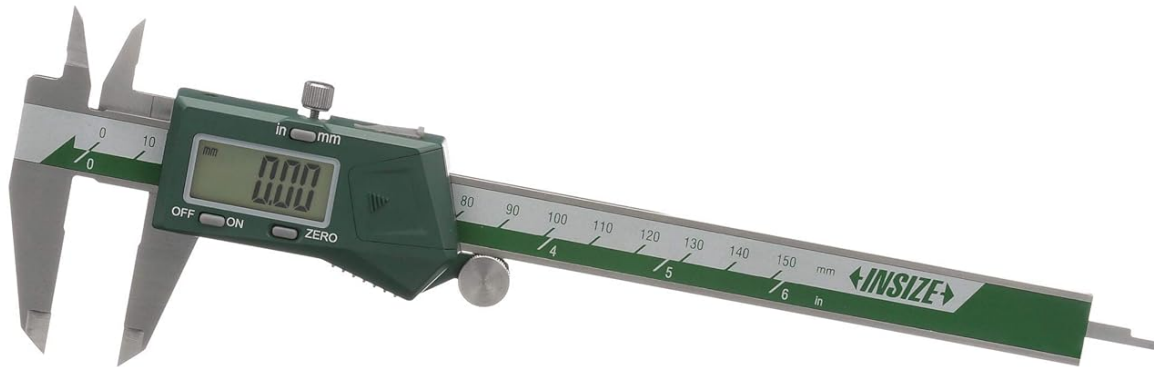


Figure 1: Front view of the INSIZE 1108-150 Electronic Caliper, showing the digital display, measurement jaws, and control buttons.

PRODUCT OVERVIEW

The INSIZE 1108-150 is a precision electronic caliper designed for accurate dimensional measurements. It features a clear digital display and is constructed from durable stainless steel.

Key Features:

- Measurement Range: 0-6 inches / 0-150 mm
- Resolution: 0.0005 inches / 0.01 mm
- Accuracy: ± 0.0008 inches
- Automatic power off function
- Inch/millimeter conversion
- Zero setting at any position

- Data output capability
- Stainless steel construction



Figure 2: Technical diagram illustrating the INSIZE 1108-150 Electronic Caliper's dimensions and key specifications.

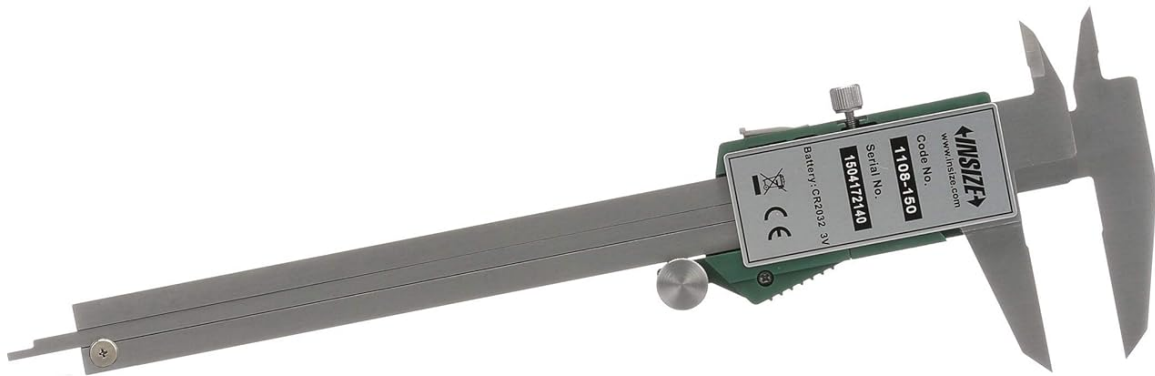


Figure 3: Back view of the INSIZE 1108-150 Electronic Caliper, displaying the serial number and the battery compartment location.

PACKAGE CONTENTS

Upon opening the package, verify that all items are present and undamaged:

- INSIZE 1108-150 Electronic Caliper (Main Unit)
- CR2032 Battery (pre-installed or included separately)
- Hard Plastic Storage Case
- Operation Instruction Manual
- Inspection Certificate



Figure 4: The INSIZE 1108-150 Electronic Caliper, its instruction manual, and inspection certificate neatly stored within its protective hard plastic case.

SETUP

Battery Installation

The caliper uses one CR2032 battery. If the display does not turn on or shows a low battery indicator, replace the battery.

1. Locate the battery compartment cover on the digital unit (refer to Figure 3).
2. Slide the cover open or use a small tool to gently pry it open.
3. Remove the old battery, noting its polarity.
4. Insert a new CR2032 battery with the positive (+) side facing up.
5. Close the battery compartment cover securely.

ELECTRONIC CALIPERS (STANDARD MODEL)

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



1108-150

DATA
OUTPUT

INSPECTION
CERTIFICATE
TRACEABLE TO NIST

Part No.	Range	Accuracy	L	a	b	c	d
1108-150 *	0-6"/0-150mm	±.0008"	9.291"	.827"	.630"	.630"	1.575"
1108-200 *	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1108-300 *	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.630"	2.362"

* Supplied with manufacturer inspection certificate traceable to NIST

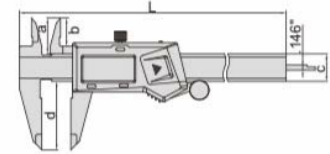


Figure 5: The INSIZE 1108-150 Electronic Caliper alongside a CR2032 battery, indicating the battery type required for operation.

OPERATING INSTRUCTIONS

Turning On/Off

- **To Turn On:** Press the "ON/OFF" button or simply move the digital unit along the beam.
- **To Turn Off:** Press the "ON/OFF" button. The caliper will also automatically power off after a period of inactivity.

Zero Setting

The zero point can be set at any position, allowing for incremental measurements.

1. Close the measuring jaws completely for absolute zero, or position the jaws at your desired reference point.
2. Press the "ZERO" button. The display will show "0.00" or "0.000".

Inch/Millimeter Conversion

To switch between inch and millimeter units:

- Press the "INCH/MM" button. The display will toggle between the two units.

Taking Measurements

1. Ensure the caliper is clean and the jaws are free of debris.
2. Turn on the caliper and set the zero point as needed.
3. Gently open the jaws and position the workpiece between the appropriate measuring surfaces (outside jaws for external dimensions, inside jaws for internal dimensions, or depth rod for depth measurements).
4. Close the jaws until they make firm, but not excessive, contact with the workpiece.
5. Read the measurement directly from the digital display.



Figure 6: A user demonstrating the measurement of an external diameter on a cylindrical metal part using the INSIZE 1108-150 Electronic Caliper.

MAINTENANCE

Cleaning

- Regularly clean the measuring surfaces and the beam with a clean, dry, lint-free cloth.
- Avoid using solvents or abrasive cleaners, as these can damage the display or measuring surfaces.
- Keep the digital unit dry. While the caliper is made of stainless steel, the electronic components are not waterproof.

Storage

- Store the caliper in its protective hard plastic case when not in use to prevent damage.
- Store in a dry environment, away from direct sunlight and extreme temperatures.
- Slightly open the jaws before storing to relieve tension on the measuring surfaces.



Figure 7: The INSIZE 1108-150 Electronic Caliper resting securely within its custom-fit hard plastic storage case, ready for protection when not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display does not turn on.	Dead or incorrectly installed battery.	Replace the CR2032 battery, ensuring correct polarity.
Inaccurate or fluctuating readings.	Dirt/debris on measuring surfaces or beam; low battery; damaged sensor.	Clean the caliper thoroughly. Replace battery. If problem persists, contact support.
"ZERO" button not responding.	Button malfunction or electronic issue.	Ensure battery is fully charged. If problem persists, contact support.
Automatic power off not working.	Electronic malfunction.	Contact support.

SPECIFICATIONS

Feature	Detail
Model Number	1108-150
Measurement Range	0-6 inches / 0-150 mm

Feature	Detail
Resolution	0.0005 inches / 0.01 mm
Accuracy	±0.0008 inches
Material	Stainless Steel
Battery Type	CR2032 (1 included)
Functions	ON/OFF, ZERO, Inch/mm conversion, Data Output
Automatic Power Off	Yes
Product Dimensions	10.28" L x 4.09" W x 1.3" H
Weight	13.67 ounces

INSIZE		Inspection Certificate					
Product name	Digital Caliper	Traceable to	USA NIST No.821/279484-10				
Code No.	1108-150		Germany DKD No.D-K-15190-01-00				
Measuring range	0-150mm / 0-6"	Inspector	<i>Daniel</i>				
Resolution	0.01mm / 0.0005"	Judgement	Passed				
Serial No.	0910120004						
Standard temperature	20°C / 68°F						
				Unit: inch	Unit: mm		
Measuring Length	Permissible Error	Error		Measuring Length	Permissible Error	Error	
		External	Internal			External	Internal
0.4 DIA	+0.0005 -0.0010	/	0.0005	Φ10	+0.01 -0.02	/	0.01
2	±0.0010	-0.0005	/	50	±0.02	-0.01	/
4		-0.0005	/	100		-0.01	/
6	±0.0015	-0.0010	/	150	±0.03	-0.02	/
8		/	/	200		/	/
10		/	/	250		/	/
12		/	/	300		/	/
		/	/				

Figure 8: A detailed view of the INSIZE Inspection Certificate, confirming the calibration and accuracy of the Digital Caliper model 1108-150.

WARRANTY AND SUPPORT

INSIZE products are manufactured to high standards and undergo strict quality control. For warranty information, technical support, or service, please refer to the contact details provided in the included warranty certificate or visit the official INSIZE website.

INSIZE Contact Information:

- **INSIZE USA:** www.insize.com
- Refer to your product's specific warranty card for regional contact details.



