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## INSIZE 1156-300

# INSIZE 1156-300 Electronic Height Gage User Manual

Model: 1156-300

## 1. INTRODUCTION AND OVERVIEW

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The INSIZE 1156-300 is an electronic height gage designed for precise vertical measurements. It features a driving wheel for smooth movement and a digital display for clear readings. This instrument is capable of measuring in both inches (0-12") and millimeters (0-300mm) with high resolution. It is constructed from stainless steel for durability and includes a carbide-tipped scriber for marking.



Figure 1: The INSIZE 1156-300 Electronic Height Gage, showing its digital display, driving wheel, and carbide-tipped scriber.

## 2. PRODUCT FEATURES

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- **Resolution:** 0.0005" / 0.01mm for precise measurements.
- **Automatic Power Off:** Conserves battery life; unit powers on by moving the digital unit.
- **Construction:** Made of durable stainless steel.
- **Control Buttons:** Includes ON/OFF, ZERO, INCH/MM, PRE-SET (+, -), and HOLD functions.
- **Scriber:** Equipped with a carbide-tipped scriber for accurate marking.
- **Power Source:** Uses a CR2032 battery.
- **Data Output:** Features data output capability.
- **Optional Accessories:** Compatible with data output cables (part no. 7302-SPC5A, 7305-SPC2A), dial test indicator holder (part no. 6293-7), and clamp for protractors (part no. 2372-CLAMP).

## 3. WHAT'S IN THE BOX

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Upon unpacking, ensure all items are present and undamaged:

- INSIZE 1156-300 Electronic Height Gage
- Carbide-tipped Scriber
- Dust Cover
- CR2032 Battery (may be pre-installed or separate)

## 4. SETUP

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1. **Unpacking:** Carefully remove the height gage and all accessories from its packaging. Retain packaging for future storage or transport.
2. **Battery Installation:** If the battery is not pre-installed, open the battery compartment (typically on the back of the digital unit) and insert one CR2032 battery with the positive (+) side facing up. Close the compartment securely.
3. **Scriber Attachment:** Loosen the scriber clamp screw on the digital unit. Insert the carbide-tipped scriber into the clamp, ensuring it is securely seated and aligned. Tighten the clamp screw firmly.
4. **Placement:** Place the height gage on a stable, flat, and clean surface, such as a surface plate, to ensure accurate measurements.
5. **Dust Cover:** Keep the dust cover on the height gage when not in use to protect it from dust and debris.

## 5. OPERATING INSTRUCTIONS

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Follow these steps for accurate measurement using your INSIZE 1156-300 Electronic Height Gage:

1. **Power On:** Press the **ON/OFF** button or simply move the digital unit along the column to activate the display.
2. **Unit Selection (Inch/mm):** Press the **INCH/MM** button to switch between imperial (inches) and metric (millimeters) units. The selected unit will be indicated on the display.
3. **Zero Setting:**
  - Place the height gage on the reference surface.
  - Lower the scriber until its tip gently touches the reference surface.
  - Press the **ZERO** button to set the current position as zero. The display will show "0.0000" or "0.00".
4. **Measurement:**

- Use the driving wheel to smoothly move the digital unit and scribe to the desired measurement point.
- Ensure the scribe makes firm, consistent contact with the workpiece.
- Read the measurement directly from the digital display.

#### 5. **Pre-set Function:**

- The **PRE-SET (+, -)** buttons allow you to input a specific value to the display. This is useful for setting a known reference point other than zero.
- Consult the full product manual for detailed instructions on using the pre-set function for specific applications.

6. **Hold Function:** Press the **HOLD** button to freeze the current reading on the display. Press it again to release and resume live measurement.

7. **Power Off:** Press and hold the **ON/OFF** button for a few seconds, or the unit will automatically power off after a period of inactivity.

## 6. MAINTENANCE

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- **Cleaning:** Regularly clean the height gage, especially the measuring surfaces and the digital unit, with a soft, lint-free cloth. For stubborn dirt, a mild, non-abrasive cleaning solution can be used, applied sparingly to the cloth, not directly to the instrument.
- **Storage:** Store the height gage in its original packaging or a protective case when not in use. Ensure it is kept in a dry environment, away from direct sunlight, extreme temperatures, and corrosive substances. Always use the provided dust cover.
- **Battery Replacement:** When the display becomes dim or erratic, replace the CR2032 battery. Ensure proper polarity during installation. Dispose of old batteries responsibly.
- **Scriber Condition:** Periodically inspect the carbide-tipped scribe for wear or damage. A worn scribe can affect measurement accuracy. Replace if necessary.
- **Calibration:** For critical applications, periodic calibration by a qualified technician is recommended to ensure continued accuracy.

## 7. TROUBLESHOOTING

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If you encounter issues with your INSIZE 1156-300 Height Gage, refer to the following common problems and solutions:

- **Display is blank or dim:**
  - Check if the unit is powered on by pressing the ON/OFF button or moving the digital unit.
  - Replace the CR2032 battery. Ensure it is inserted with correct polarity.
- **Inaccurate or inconsistent readings:**
  - Ensure the reference surface is clean, flat, and stable.
  - Re-zero the instrument on the reference surface.
  - Check if the scribe is securely attached and not worn.
  - Clean the measuring surfaces and the digital unit to remove any debris.
  - Ensure the workpiece is stable and properly positioned.
- **Digital unit movement is stiff or rough:**
  - Clean the column and the sliding surfaces of the digital unit.
  - Apply a very small amount of light machine oil to the column if recommended by the manufacturer (refer to specific product documentation if available).

If the problem persists, contact INSIZE customer support or your local distributor for assistance.

## 8. SPECIFICATIONS

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Feature	Detail
Model Number	1156-300
Measuring Range	0-12 inches / 0-300 mm
Resolution	0.0005 inches / 0.01 mm
Material	Stainless Steel
Power Source	CR2032 Battery
Scriber Type	Carbide-tipped
Product Dimensions	0.7 x 13.19 x 16.73 inches
Weight	1 Pound
Manufacturer	INSIZE

## 9. WARRANTY AND SUPPORT

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For information regarding warranty coverage, technical support, or replacement parts for your INSIZE 1156-300 Electronic Height Gage, please refer to the warranty card included with your product or visit the official INSIZE website. You may also contact your authorized INSIZE dealer or distributor for assistance.

**INSIZE Official Website:** [www.insize.com](http://www.insize.com)