

## Digital Caliper Instruction Manual

### Overview

A digital caliper is a length - measuring tool that utilizes the capacitive grid measurement system principle. It measures the distance between the relative movements of the two measuring jaws and displays the reading on an LCD. Digital calipers can be used for measuring internal dimensions, external dimensions, step dimensions, and depth dimensions.

### Main Technical Specifications

1. **Resolution:** 0.01mm/0.0005in
2. **Repeatability Accuracy:** 0.01mm
3. **Maximum Moving Speed:** 1.5mm/s
4. **Power Supply:** 3V CR2032 battery (1.5V SR44P)
5. **Operating Environment:** 0°C - 40°C, relative humidity ≤ 80%
6. **Storage and Transportation Temperature:** -20°C - 70°C

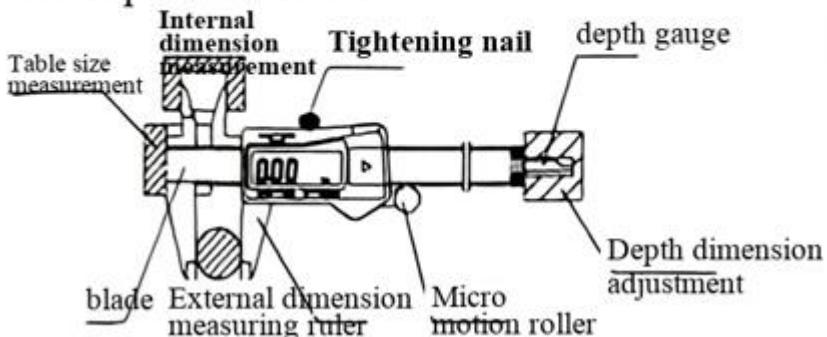
### Specifications

Specification	Type	Function Keys
0 - 150mm	II	Three - button or four - button

### Structural and Functional Diagrams

1. **Type II:** Can be used for measuring internal dimensions, external dimensions, step dimensions, and depth dimensions.

2. **Type II: capable of measuring internal dimensions, external dimensions, step dimensions, and depth dimensions.**



### Performance Characteristics

1. Digital calipers are classified into three - button, four - button, and six - button types according to their usage performance.
2. Digital calipers with a specification of  $\geq 150\text{mm}$  are equipped with a fine - adjustment device.
3. Made of stainless steel, and the measuring surfaces can be inlaid with hard alloy.
4. Equipped with a power switch.
5. Zero - setting can be performed at any position.
6. Conversion between metric and imperial units can be carried out at any position.
7. Equipped with a data output port.

## Function Descriptions of Each Button

1. **ON/OFF Button:** The power switch. Press this button once to turn on the power and start working, and press it again to turn off the power.
2. **ZERO Button:** For zero - setting. Press this button at any position to clear the displayed digits (in the "ABS" state with preset function, the preset value is displayed; in the "TNC" state, the digits remain unchanged).
3. **m/in(m/inch) Button:** For conversion between metric and imperial units. In the metric state, press this button to convert to the imperial state, and the LCD displays "in(inch)". Press it again to convert back to the metric measurement, and the LCD displays "mm".
4. **HOLD Button:** For reading hold. Press it once to keep the digits unchanged, and the LCD displays "H". Press it again to cancel the hold, and the "H" on the LCD disappears.
5. **ABS/NC Button:** For conversion between absolute and relative measurements. In the "ABS" mode, press this button to convert to the "TNC" mode, and the LCD displays "TNC" while the digits are cleared. Press it again to convert back to the "ABS" mode, and the LCD displays "ABS" or the "NC" disappears.
6. **ZERO/SET Button:** The preset button. It can be used in combination with the "▼" and "▲" buttons to set preset values.
7. **▼ Button:** The lower - adjustment button for preset values.
8. **▲ Button:** The upper - adjustment button for preset values.
9. **Preset Value Setting:** In the "ABS" state, short - press the "SET" button to display the original preset value. Long - press the button, and the upper part of the display screen shows "SET" flashing, indicating that preset values can be set. Short - press the "▼" or "▲" button to decrease or increase the digital value. Hold the "▼" or "▲" button to continuously decrease or increase the digital value. When approaching the desired preset value, release the button, and then short - press the "▼" or "▲" button to adjust to the required preset value. Press the "SET" button again, and the "SET" disappears, completing the preset value setting.

## Usage Instructions and Precautions

1. Before use, the fastening screws should be in the loose state.
2. Clean all the measuring surfaces and the surface of the caliper.
3. Check whether each button is flexible and effective, and whether the digital display is stable and clear at any position.
4. During use, keep the body and measuring surfaces of the caliper clean, and avoid contact with liquid substances such as water (for waterproof calipers, wipe off the water before normal use).
5. When the digits flicker or are not displayed, replace the battery.
6. Do not apply voltage to any part of the caliper, and do not use an electric pen to engrave, so as not to damage the electronic components.
7. When not using the data output port, do not remove the data port cover, and do not touch the output port with metal objects to avoid damaging the electronic components.
8. If the display cannot count (the digits are locked), it is caused by occasional circuit factors. In this case, remove the battery and reinstall it after 2 - 3 minutes.

9. If the product is not used for more than 3 consecutive months, please remove the battery and store it properly. Otherwise, battery leakage may occur, damaging the product.

#### **After - Sales Service**

The company promises to spare no effort to provide users with satisfactory products and services. For quality problems of the sold products, the "three guarantees" (repair, replacement, and refund) will be implemented.

#### **Notice to Users**

Our company is committed to continuous innovation. The product you have purchased may be slightly different from this instruction manual. Product modifications will not be notified separately. Thank you for your understanding.

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