



Heavy Duty Electronic Digital Caliper

Part Number:

54-100-312

54-100-024-1

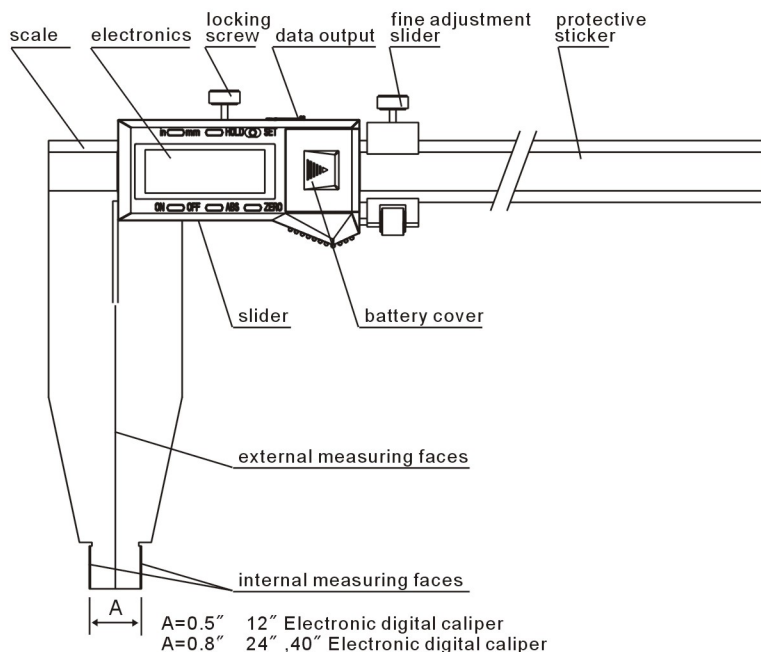
54-100-042-1

IMPORTANT!

Initial Operation

This electronic caliper comes supplied with a battery and is instantly operational. However, we suggest you read this manual prior to using your instrument.

Before using the caliper, clean the surfaces and jaws of the caliper with a dry and clean cloth (or dampened with cleaning oil).



· FUNCTION:

ON/OFF: Power on/off switch
ABS/INC: Relative/absolute measurement
ZERO: Zero setting button
mm/in: metric/inch conversion
SET: presetting button
HOLD: data hold button

· INSTRUCTIONS:

1. Operating Condition:

Temperature: 5-40°C

Relative Humidity: ≤ 80%

Prevent any liquid from contacting the protective sticker

2. Never apply voltage (e.g. Engraving with an electrograph) on any part of the caliper for fear of damaging the circuit.

3. Preset a starting point of measurement correctly (please refer to OPERATION). Unless presetting, do not press the "SET" button purposely for fear of measurement error.

· TECHNICAL SPECIFICATIONS:

- Resolution: .0005"
- Repeatability: .0005"
- Accuracy:
 - 0-12" : +/- .002"
 - 0-24" : +/- .003"
 - 0-40" : +/- .004"
- Maximum measuring speed: 120" per second.
- Battery: CR 2032 3V Lithium Battery.
- Battery life: approx. 1 year

· INSTRUCTIONS OF DATA OUTPUT:

- Preset zero and metric/inch system
- Connect the end of the interface cable to the computer. The other to the data output port of the caliper.
- Start the caliper and software.
- Move the slider to the position you want and press the button on control box for data output.

· BATTERY REPLACEMENT:

Once display begins flashing or even no display. Slide the cover open as the arrow shows and replace with a new battery (CR 2032)

Note: 1) The positive pole of the battery must face out.

2) Please preset the starting point over again after battery replacement.

· OPERATION:

1. ON/OFF button

- 1). Press ON/OFF button at any position when the power is off, the caliper will be ready to work and display the measuring value.
- 2). Press ON/OFF at any position when the power is on, the caliper will stop working.

2. ABS/INC button

- 1). Press ABS button in absolute mode (without "ABS"), the caliper is ready for absolute measurement
- 2). Press ABS button in relative mode (with "ABS" displaying), the caliper is ready for relative measurement and simultaneously displays "ABS", showing relative mode.
- 3). Press ABS at any position for relative/absolute measurement interchange.

3. ZERO button

- 1). In relative mode, press ZERO button to set the current point to zero and the caliper will display zero.
- 2). In absolute mode, press ZERO button to set the current point to the preset value and the caliper will display this value.

4. mm/in button

- 1). Press mm/in button at any position for metric/inch conversion.

5. SET button and Internal Measuring (Easy one touch set)

- 1). It's for presetting a starting point (the value has been preset to zero in the factory).
- 2). With each one press on this button at any position.

The current point is set to the preset value and displays on the LCD.

The details are as the follows:

Number of times pressed	preset value	
1	.5"/12.7mm	for internal measuring of 12" calipers
2	.8"/20.32mm	for internal measuring of 24" & 40" calipers
3	1"/25.4mm	for optional measuring
4	2"/50.8mm	for optional measuring
5	3"/76.2mm	for optional measuring
6	4"/101.6mm	for optional measuring
7	5"/127mm	for optional measuring
8	6"/152.4mm	for optional measuring
9	.3935"/10mm	for optional measuring
10	.7870"/20mm	for optional measuring
11	.9840"/25mm	for optional measuring
12	1.9685"/50mm	for optional measuring
13	0	standard, after internal and optional measuring, please set for normal measuring.

- 3). The process is circulative. The preset value is held even after powering off.

6. HOLD button

- 1). Press "H" button at any position, the caliper will hold the value as before and display "H" on the LCD. The data will not change even if you move the slider.
- 2). Press "H" button once again to release hold state (no character "H" displays), then the caliper displays the measured value.

7. Restart the caliper after powering off by pressing ON/OFF button, it will keep the last state (mm/in, ABS/INC, SET).



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