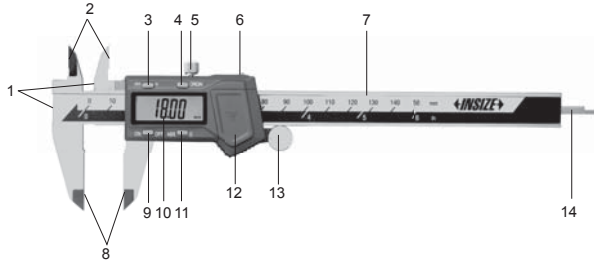




OPERATION INSTRUCTION

Digital Caliper Series 1103

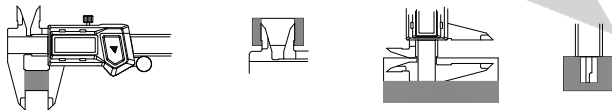
Resolution: 0.01mm/0.0005"
 Accuracy: $\pm 0.02\text{mm}/0.0008"$ (Range: 0-200mm/0-4")
 $\pm 0.03\text{mm}/0.0012"$ (Range: 200-300mm/4-12")



- | | |
|---------------------------|---------------------------|
| 1-Step measuring faces | 8-External measuring jaws |
| 2-Internal measuring jaws | 9-"ON/OFF" button |
| 3-"mm/in" button | 10-LCD display |
| 4-"ORIGIN" button | 11-"ABS/0" button |
| 5-Locking screw | 12-Battery cover |
| 6-USB output | 13-Thumb roller |
| 7-Beam | 14-Depth measuring bar |

- The product with absolute code system is reliability.
- The caliper is not waterproof. The reading may not be correct if there is coolant or other liquid on caliper. The measuring methods are following:

External measurement Internal measurement Step measurement Depth measurement



3. Install battery:

- Remove battery cover and rubber cover(Fig.1).
- Put battery into battery house, the positive side of battery(+) should face out(Fig.2).
- Put the rubber cover on battery, and close the battery cover(Fig.3).
- Close the jaws, long press(more than 3 seconds) "ORIGIN" to set zero(Fig.4).



Fig.1

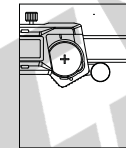


Fig.2

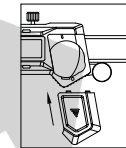


Fig.3

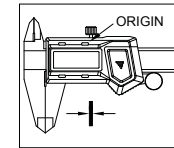


Fig.4

4. Button:

- in/mm---Metric and inch conversion
 - ORIGIN---Long press(more than 3 seconds) to set zero
 - ON/OFF---Power on/Power off
 - ABS/0---Short press to enter INC(relative measurement) mode, short press it to set relative zero. Long press to return ABS(absolute measurement) mode
- Please check zero before use, clean the measuring faces with soft cloth, then close the external jaws, display shows "0.00", otherwise long press(more than 3 seconds) "ORIGIN" to set zero before measurement.
 - To get accurate measurement, it is necessary to control the force. During measurement, please always apply constant and proper force on the caliper. The measuring jaws should hold the workpiece and can still slide on the workpiece.
 - Automatic power off in about five minutes. Press "OFF/ON" button or move the digital unit to turn on display after automatic power off.
 - One battery can last for one year use. If there is "B" flickering on display, battery voltage is too low, please replace battery. If caliper is not be used for a long time, please remove the battery. Otherwise, liquid may leak from the battery and damage the caliper.
 - Remove the battery cover and rubber cover
 - Insert a pointed tool into the notch "a" of battery house to take out battery (fig.5)

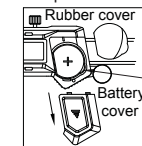


Fig.5

- If digits do not change when buttons are pressed, take out battery and put it back after 1 minute.
- Optional accessories: SPC cable (series 7304), depth base attachment (code 6140).

MN-1103-E