

IP67 Digital Caliper with Absolute Encoding System 110-DCP Series

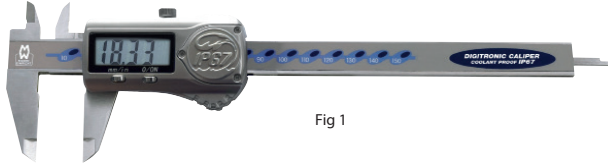


Fig 1

Features

- Absolute Measuring System
- Waterproof, oilproof, anti-electromagnetic interference, protection rating IP67 (IEC 60529)
- LCD Display
- Low-voltage alarm and calculation error alarm
- Infinite setting speed, no speed error
- Sleep mode after 5 minutes of no use
- Functions: mm/inch | Absolute/Incremental measurement

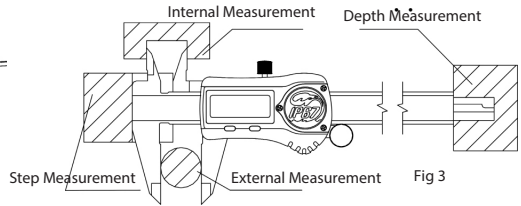
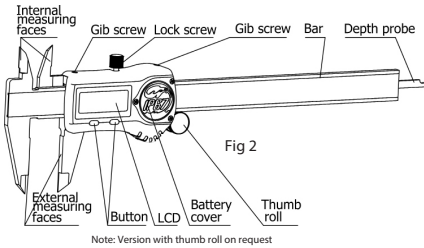
Technical Specification

- Measuring range: 0 -150mm | 0 - 200mm | 0 - 300mm
- Resolution: 0.01mm/0.0005in
- Repeatability: 0.01mm/0.0005in
- Operating temperature: 0°C - 40°C
- Storage temperature: -10°C - 60°C
- Relative humidity: 100%
- Protective level: IP67 (IEC 60529)
- Battery type: 3V lithium battery (CR2032)

Operation

- **ABS/INC Conversion:** In the "ABS" mode, when the lower jaws is closed, "0.00" is displayed, the absolute origin position of the digital caliper, and "ABS" is displayed on LCD screen. For relative measurements at any position, press the button "0/ON" and "INC" is displayed on the LCD screen and "0.00" is displayed at current position (relative measurement mode). To convert to "ABS" mode, press the button "0/ON" until "ABS" is displayed on the LCD screen and then release the button. The absolute position value is displayed.
- **mm/in conversion:** Press the button "mm/in" to switch to mm or inch mode.
- **Manual switch off:** Press the button "0/ON" until OFF is displayed and then release the button.
(Note: Keep pressing the button, sequence of "0/ON", "INC" → "ABS" → "OFF" → "INC" will be displayed, when the needed function appears, release the button)

- To calibrate the absolute origin position: When the external measuring faces are closed and “0.00” is not displayed due to worn measuring faces, etc, this shows the absolute origin position has changed. Now it’s necessary to calibrate the absolute origin. ❶ Switch on the power and make the external measuring faces touch. ❷ Press button “mm/in” until “0.00” is displayed then release the button. ❸ Move the slider back and forth several times. Make the external measuring faces touch every time and check if “0.00” is displayed. If “0.00” is not displayed, repeat the operation until “0.00” is displayed.
- **Workpiece measurement methods:** This digital caliper measures internal dimensions (such as slots, holes, etc.), external dimensions (such as cylindrical, linear outer dimensions, etc.) depth dimensions (such as groove depth, step height, etc.), etc. Its measurement methods and value reading are the same as ordinary digital calipers. (See Fig 3)



Notes

- Do not charge or burn the battery. If the battery is swallowed, see a doctor immediately.
- The jaws of this caliper have a sharp edge. Handle it with great care to avoid injury.
- Avoid colliding and dropping which may cause deformation and reading errors.
- Keep all the measuring faces and guiding faces clean.
- If it’s not used for a long time, remove the battery and store it in the packing box.
- The electronic components must not be exposed to chemical solvents.
- When replacing the battery, refit the sealing O-ring in case it’s deformed or damaged.
- The digital caliper adopts absolute encoding measuring system, the clearance and position between the reading head and the steel scale are strict and precise. Do not dismantle any part of it in order to avoid the reading head’s failure of reading the scale.

TROUBLESHOOTING

Serial No.	Malfunction	Cause	Solution
1	Water enters the electronic components due to poor gas tightness	1.Battery cover hasn't been tightened 2.The sealing O-ring is deformed 3.The sealing O-ring is damaged 4.Other causes	Tighten the screws in the battery cover Adjust the O-ring's shape Replace the sealing O-ring Send back for repair
2	Incomplete or missing LCD display	1.Water enters the electronic components 2. Other causes	Dry it.. Avoid water entering (see no.1) Send back for repair
3	No LCD display	1.Flat battery 2.Poor contact 2.Other causes	Replace the battery Improve the battery seat Send back for repair
4	LCD displays	1.Low power	Replace the battery
5	LCD displays "Err-3"	1.The temperature is lower than 0°C or higher than 40°C 2. Electronic components are damaged 3.Low power / poor contact	Adjust the ambient temperature between 0°C~40°C Send back for repair Replace battery / improve the battery seat

Because of the products' continuous upgrading, the instructions may be slightly different from the actual product, the actual product shall prevail.