

OFFSET DIGITAL CALIPER

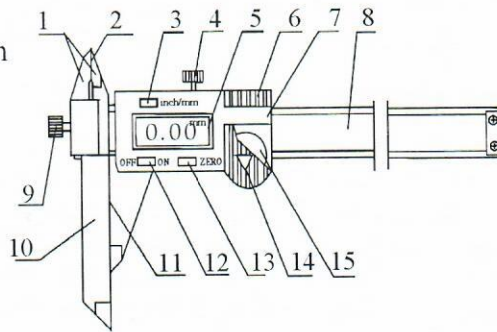
OPERATION INSTRUCTIONS

● INSTRUCTIONS:

1. Before using the Offset Digital Caliper, clean the surface of the protective sticker with dry and clean cloth (or soaked with cleaning oil).
2. Never apply voltage on any part of the Offset Digital Caliper or engrave with an electric pen for fear of damaging the electronics.
3. Turn off the Offset Digital Caliper by pressing "ON/OFF" button when the Caliper is not in use. Take out the battery if the Caliper will stay idle for a long time.

● NOMENCLATURE:

- | | |
|---------------------------------------|-----------------------|
| 1. Internal Measuring Jaws | 4. Locking Screw |
| 2. Internal Measuring Faces | 5. LCD Display Screen |
| 3. Inch/mm Interchange | 6. Data Output |
| 7. Slider | 8. Protective Sticker |
| 9. Locking Screw | 10. Offset Jaw |
| 11. External Measuring Faces | |
| 12. Power On/Off Button | |
| 13. Zero Setting Button | |
| 14. Battery Cover | |
| 15. Silver Oxide Button Battery(SR44) | |



● TECHNICAL SPECIFICATIONS:

Resolution: 0.01mm

Power: One silver oxide button battery SR44, 1.55V

Measuring Speed: ≤ 1.5 m/sec.

Working Conditions:

Temperature: 0—+40°C

Relative Humidity: $\leq 80\%$

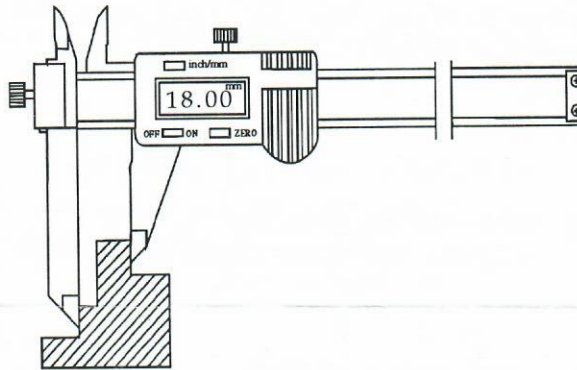
Storage Temperature: -10—+60°C

● **FUNCTIONS:**

1. Zero setting at any location
 2. Inch/metric system conversion at any location
 3. Through a special cable, the data can be input into a special microprinter
- Working way of the interface: synchronous series
 Data: Binary code, 24bits. Each datum will be sent twice. The cycle is 300ms (or 20ms in fast reading state)
 Transmitting time: 0.5ms
 The four wires (from left to right): Negative power(-), Clock pulse CP, Data D, Positive power(+)
 Pulse range of data: Datum Level $\leq 0.2V$, Level "1" $\geq 1.3V$
 Clock pulse CP: 90Hz, effective for high power level

● **APPLICATION:**

1. Preparations:
 - A. Clean the surface of the protective sticker (Please refer to the above-mentioned instructions) and all the measuring faces.
 - B. Loosen the locking screw 4 and move the slider. Check to see if the display screen and all the buttons work properly.
 - C. Loosen the locking screw 9 on the offset jaw, move the offset jaw to a location needed and fasten the locking screw.
2. Method Of Measurement:
 - A. Turn on the Offset Digital Caliper by pressing "ON/OFF" button
 - B. Press "inch/mm" button to select a unit system needed.
 - C. Move the slider to close the measuring jaws. Then press "ZERO" button to start measuring.



● **BATTERY REPLACEMENT:**

When the display keeps flashing or even does not appear, take off the battery cover as the arrow shows and replace the battery with a new one (SR44, 1.55V). Please note that the positive pole of the battery must face out. If the battery bought from the market does not work satisfactorily (The power may wear down because of the long-term storage and the battery's automatic discharge etc.), please do not hesitate to contact the supplier.

● **BRIEF ON MAINTENANCE:**

Troubles	Possible Causes	Solutions
Flashing digits	Low voltage	Replace the battery
No Display	1. Low voltage 2. Poor contact	1. Replace the battery 2. Adjust and clean the battery seat
Fixed digits	Accidental trouble in circuit	Take out the battery and put it back after one minute