INSTRUCTIONS FOR DIGITAL MICROMETER

Important Notice

1) Before using this product, please read this manual carefully. When you begin to use it, you are considered to have read the instructions carefully.
2) Any improvements or technical changes for this product will be without notice.

Important

· Before using this digital micrometer for the first time, wipe the rust preventive oil from the digital micrometer with soft cloth soaked with cleaning oil.
· If the digital micrometer is not used for more than three months, take out battery and keep it. Otherwise, battery leakage may occur, and the leakage may damage the product.
· In order to prevent the water from entering the digital module, tighten the battery cover after loading the battery.Besides, do not take out the sealing O ring.
· Never apply voltage on any part of this product or engrave with an electrical pen on it.
· Anti-rust treatment shall be done after operation, rust may cause malfunction to this product.

Safety Precautions

· When using this product, please follow the directions, specifications and features given in this manual.
· Beyond the scope of use will affect the safety performance of the product.

· Do not dismantle the battery, do not make the battery short circuited. Never charge or heat the battery , or it may cause the battery heated, ruptured and the leakage of battery fluid may enter the eyes.
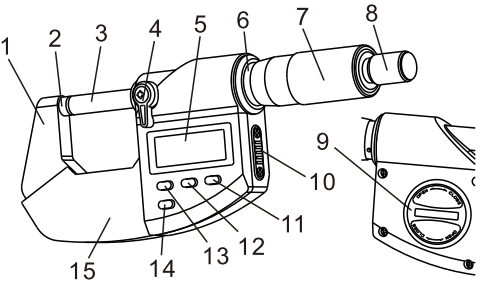· If a battery is swallowed,immediately consult a doctor.

Specifications

· Resolution: 0.001mm /0.00005"。
· Permissible error: ± 0.002mm(25/50mm)/ ± 0.0001" (1/2"),
  ± 0.003mm(75/100/125/150mm)/ ± 0.00015"(3/4/5/6")
  ± 0.004mm(175/200/225/250mm) ± 0.002"(7/8/9/10")
  ± 0.005mm（275/300mm)/ ± 0.00025"(11/12")
  ± 0.006mm（325/350/375/400mm)/ ± 0.0003" （13/14/15/16") ,
  ± 0.007mm（425/450/475/500mm)/ ± 0.00035" （17/18/19/20") ,
· Repeatability: 0.001mm/ 0.00005"
· Battery: CR2032
· Battery life: 2 years
· Operating temperature: 0℃ ~ 40℃
· Storage temperature: −10℃ ~ 60℃
· Setting speed: 30mm/s

Components & Functions

1.Frame   2.Anvil   3.Spindle
4.Locking device   5.LCD screen   6.Sleeve
7.Thimble   8.Ratchet stop   9.Battery cover
10.Data output port cover
11.HOLD/DATA button
(Measured values hold on screen/data collect)
12.mm/in button
13.ORIGIN button（0 position setting ）
14.ON/0/ABS button
15.Insulant pad

How to use

Important

· Use CR2032 Lithium manganese button cell only.
· The battery supplied is used only for the purpose of checking the functions and performance of the digital micrometer, therefore it may satisfy the specified battery life.
· Set ORIGIN (0 position) after loading the battery.
· Disposal of waste batteries must comply with the relevant discarding procedure and regulations.
· "------"will twinkle on the screen after loading the battery. If this symbol doesn't twinkle or is not shown reload the battery.
· When loading the battery vertically, the battery may pin the positive pole bar and damage it. Hence, put asl ant the battery into the battery seat while pushing the positive pole bar aside.

1)Loading the battery
(1) Loading or replacing the battery must follow the following procedures.
(2) Take off the battery cover by following the open arrow with the CR2032 battery.
(3) Take out the flat battery.
(4) Loading the battery with the positive pole facing upward.

(5) Check the sealing o ring to ensure it's in the correct position.
(6) Put on the battery cover, tighten the battery cover by following the close arrow with the waste CR2032 battery.
(7) Never take off the sealing o ring.

2)ORIGIN (0 setting)
(1) "------"will twinkle on the screen after loading the battery. Cleanse the measuring faces with a soft cloth.Turn the ratchet stop to close the measuring faces. Press ORIGIN button for more than one second, "0.000" or 0.00000"(inch mode) will be displayed on the screen, it shows the ORIGIN (0 position) has been set.
(2) If the error of the micrometer head is within 0.02mm(0.01"), lock the spindle with the locking device, then turn the sleeve with the spanner wrench until the line on the sleeve coincides with the zero line on the thimble, then assemble the ratchet stop.

Important
    When pressing the ORIGIN button to set 0 after loading the battery, do not turn the thimble . Otherwise,error may occur.

3)mm/in (Metric and inch system conversion)
    Press the mm/in button to switch to mm or inch mode alternately.

4)HOLD/DATA (Measured value hold on the screen/data collect)
(1) Press the button HOLD/DATA when the data cable is not connected to digital micrometer, "H" will be shown and the screen will hold the measured value(metric and inch system can be interchanged). Repress button HOLD/DATA , "H" will disappear.The digital micrometer will return to the previous state.
(2) When the data cable is connected to the digital micrometer, "* " will be shown on the screen. Each quick press on the button HOLD/DATA, it will output the displayed value once and the "* " will twinkle once.

5)ON/0/ABS
(1) When the measurement is done, the display will disappear after 20 minutes if the thimble is not turned. If the display is needed, press the button ON/0/ABS. If this digital micrometer is not used for more than 120 hours, its origin needs to be set before measurement.
(2) Quick press on button ON/0/ABS, INC is shown, it turns to the origin of relative measurement (0.000 or 0.00000 (inch mode) is shown). Relative measurement can be obtained in the mode of INC.
(3) Press button ON/0/ABS for more than one

second when it's in the state of INC, it shows absolute value. (INC disappear).

Errors and Solutions

1) "⌷⟋⌷" appears on the LCD
   means voltage is insufficient,pls change new battery. (pls refer to "how to use" step 1)
2) "Err_1" appears on LCD
   means cannot show the actual reading, pls press on/0/ABS till "-----" appears on the LCD, then refer to the "how to use" step 2, reset ORIGIN.