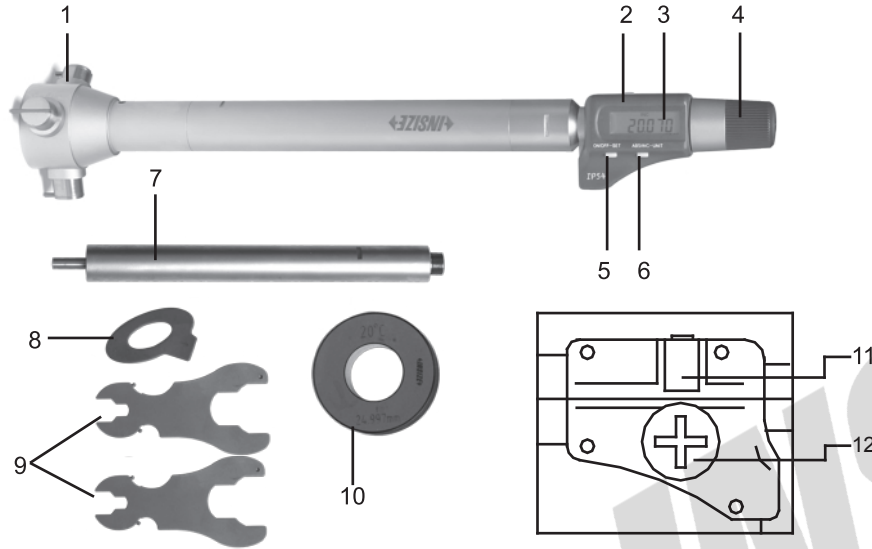




# OPERATION INSTRUCTION

## Electronic Wide Range Three Points Inside Micrometer Series 3128

**IP54: dust proof, splash water proof**



Resolution: 0.001mm/0.00005"

Code	Range
3128-70	50-70mm
3128-100	70-100mm
3128-150	100-150mm
3128-250	150-250mm
3128-300	200-300mm
3128-S100	50-100mm (2pcs)
3128-S250	100-250mm (2pcs)

Code	Range
3128-28	2-2.8"
3128-4	2.8-4"
3128-6	4-6"
3128-10	6-10"
3128-12	8-12"

- |                           |                          |
|---------------------------|--------------------------|
| 1-Measuring head          | 7-Extension rod          |
| 2-Data output key         | 8-Battery cover spanner  |
| 3-LCD display             | 9-Extension rod spanners |
| 4-Ratchet stop            | 10-Setting ring          |
| 5-'ON/OFF...SET' button   | 11-RS232 data output     |
| 6-'ABS/INC...UNIT' button | 12-Battery cap           |

\* 3128-300 and 3128-E12 do not have setting ring.

- Put battery into micrometer, the positive side of battery should face out.
- Clean measuring faces before use. Remove cutting chips, dust, burrs and other foreign substances from the piece to be measured.
- It is necessary to calibrate the micrometer regularly. Clean the hole of setting ring with soft cloth and measure it. If the reading is not the same as the size of hole, set the reading (see below).
- Buttons:
  - ON/OFF...SET
    - Press and release (less than 2 seconds): power on/off
    - Press and hold (more than 2 seconds): to set the initial reading. Press it to enter into set mode, 'SET' blinks. Keep pressing it to position the digit, the digit blinks when positioned. Release the button if you want to change the digit. Short press the button to change the digit from 1 to 9. Keep pressing the button to the next digit. After setting, keep pressing it until 'SET' blinks, short press it to exit set mode.
  - ABS/INC...UNIT
    - Press and release (less than 2 seconds): for absolute and relative measuring mode conversion. The normal mode is absolute measuring mode, 'ABS' is on display. Press the button to enter into relative measuring mode at any point (this point is called 'relative zero point'), 'INC' appears on display and the reading is zero. In this mode, the reading at a point is the difference between the actual value of this point and the value at the relative zero point. Press the button to exit from relative measuring mode and enter into absolute measuring mode.
    - Press and hold (more than 2 seconds): for metric and inch reading conversion
- Install the extension rod to measure deep holes. Unscrew the electronic reading head with the extension rod spanner. Screw on the extension rod between the measuring head and the electronic reading head, and tighten them with the spanner. Note: do not hold the electronic reading head directly during the installation.
- One battery will last for one year for continuous use. If there is nothing on display or digits flash, battery voltage is too low, please replace battery. If digits do not change when buttons are pressed, take out battery and put it back after 1 minute. Remove battery if micrometer is not be used for a long period of time.
- Working temperature is 0-40°. Do not put micrometer near strong magnetic field. Do not apply voltage on micrometer like engraving with electric pen.
- Measuring faces should be carefully protected from being scratched or damaged. Do not operate abruptly, drop or strike micrometer.

MN-3128-E

V0