

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



### IMPORTANT

**PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS, AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE, FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY.**

## 1. SAFETY INSTRUCTIONS

- ☐ **WARNING!** Ensure Health and Safety, local authority and general workshop practice regulations are adhered to when using tools and equipment.
- ✗ **DO NOT** use the micrometer if damaged.
- ✓ Maintain the micrometer in good and clean condition for best and safest performance.
- ✓ Keep the work area clean, uncluttered and ensure there is adequate lighting.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery. Contain or tie back long hair.
- ✓ Keep children and unauthorised persons away from the work area.

## 2. INTRODUCTION & SPECIFICATION

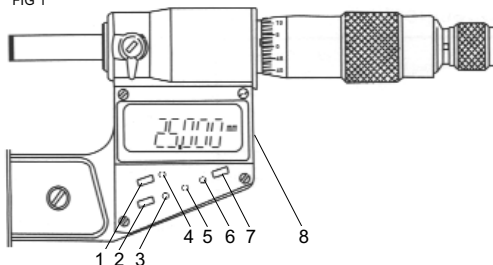
7 Button digital micrometer with satin chrome thimble and sleeve. Large, easy to read 9mm high LCD read-out. Display switches automatically between Metric and Imperial units. Zero display in any position plus take relative readings and tolerance readings. Auto power off switch. Includes serial port connection for computer interface. Supplied with adjustment wrench and storage case.

- 1 ..... Metric/Imperial conversion
- 2 ..... Data hold
- 3 ..... Relative/absolute measuring
- 4 ..... Tolerance setting
- 5 ..... Positive setting
- 6 ..... Negative setting
- 7 ..... Reset
- 8 ..... Data output (Serial port)

### SPECIFICATION:

- Range: 0 - 25mm
- Graduation: 0.001mm/0.00005
- Battery: SR44 (1.5V)
- Operating temp: 0 -- +40°C
- Storage temp: -20°C -- +70°C
- Power supply: 1 x silver-oxide button battery (SR44 1.5V)

FIG 1

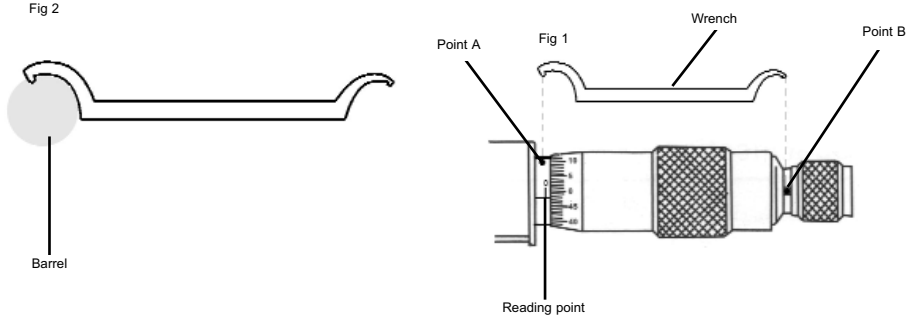


## 3. OPERATION

- ☐ **WARNING!** Ensure that you have read and understood Section 1 safety instructions before commencing.
  - ✗ **DO NOT** use the micrometer if damaged.
  - ✗ **DO NOT** use the micrometer for any purpose other than for which it is designed.
  - ✗ **DO NOT** get micrometer wet or use in damp or wet locations, or areas where there is condensation. Keep micrometer clean using a dry cotton cloth only.
  - ✗ **DO NOT** dip or submerge the micrometer in any type of liquid.
  - ✗ **DO NOT** expose micrometer to bright sunlight or dust.
  - ✗ **DO NOT** dis-assemble micrometer. The device must be checked by qualified service personnel only.
  - ✗ **DO NOT** apply any voltage to the micrometer i.e. with an electric marker pen.
  - ✓ The micrometer is a precision instrument, treat with care, avoid using force and do not subject to knocks or shocks.
  - ✓ Take particular care not to damage or scratch the scale surface.
  - ✓ Use micrometer in reasonably constant temperature conditions of approximately 20°C
  - ✓ When not in use, store micrometer in a safe, dry, childproof location.
- 3.1. Ensure all measuring surfaces are clean
  - 3.2. **Origin setting.** Use this function to preset the origin value. (Value can be anything from 0-25mm and can be used for calibration purposes)
  - 3.2.1. Press (RESET) and (-) buttons together and hold until "SET" begins to flash on the LCD.
  - 3.2.2. Press the (+) or (-) button to preset the origin value as required. Now press (RESET) to confirm the setting.
  - 3.3. **Origin resetting.** Use this function to calibrate the device using the preset origin value entered in step 3.2.
  - 3.3.1. Ensure the measuring faces of the micrometer are in contact with the object being used to calibrate it and that the measurement is precisely the distance required (i.e. identical to the preset origin value) and press (RESET).
  - 3.4. To measure an object: open the micrometer by revolving the large barrel, place the object between the measuring surfaces and close the micrometer using the smaller ratchet barrel (the ratchet is used to prevent over tightening which could otherwise result in inaccurate measurement, damage to the micrometer and damage to the object being measured). The reading is taken from the LCD display.
  - 3.5. **Metric/Imperial conversion.** Press the "in/mm" button (1) to convert the display format from inches to millimetres and visa versa.
  - 3.6. **Data hold.** This function is used to temporarily hold or fix data on the LCD display for ease of recording.
  - 3.6.1. Once a measurement has been taken, press the HOLD button (2). The letter H will appear at the top of the display and the data currently shown will become fixed. When the data has been recorded, press the HOLD button again to release the display.
  - 3.7. **Relative/Absolute measuring.** To use relative measuring e.g. to determine the difference in width of two objects, measure the first object (as explained in section 3.4), press the R/A button (the letters "REL" should appear in the LCD) and immediately measure the second object. The LCD will display the difference between the two objects. To revert back to absolute measuring simply press the R/A button once more.
  - 3.8. **Tolerance setting.** Use to set a tolerance e.g. for use when measuring a large number of components to check they are within acceptable size limits.
    - 3.8.1. Press the TOL button. "TOL up" should appear in the LCD. Turn the micrometer to set the upper level.
    - 3.8.2. Press the TOL button again, "TOL down" should now appear in the LCD. Turn the micrometer once more to set the lower level. Press the TOL button again to confirm the settings, "OK" should appear in the LCD.
    - 3.8.3. To wipe the tolerance setting, press the TOL button three times in quick succession.

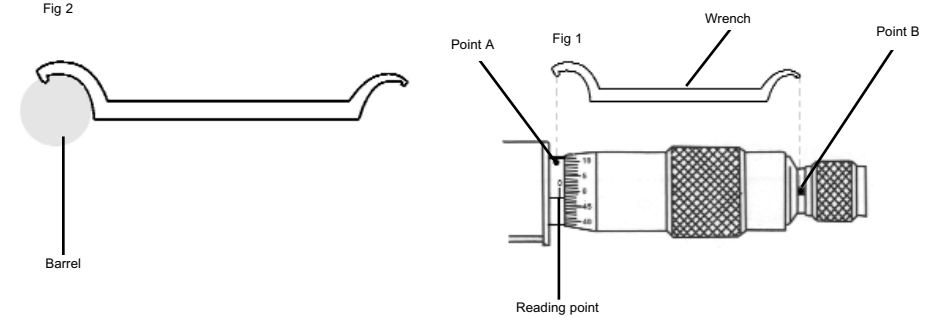
#### 4. MAINTENANCE

- 4.1. If the micrometer is not to be used for an extended period of time, remove the battery for storage.
- Note:** The LCD will flash continuously if the battery is run down.
- 4.2. **To remove/change the battery:** Using the semi circular back of the adjustment wrench provided and unscrew the battery compartment lid located on the back of the micrometer. Remove/replace battery (anode (+) facing outward) and screw the lid back on.
- 4.3. After prolonged service, the reading point may become slightly loose and misaligned. This can be corrected using the wrench provided. Fully close the micrometer. Place the wrench as shown in Fig 2 i.e. with the small protrusion hooking the hole at Point A. Using the wrench, alter the position of the reading point until it is once more aligned with the "0" on the barrel scale.
- 4.4. The ratchet barrel may also become loose over time. The wrench is then used in a similar fashion (i.e. with the smaller end of the wrench hooked in Point B) to tighten the ratchet barrel.
- 4.5. The micrometer contains no user serviceable parts. See your authorised dealer for advice/repairs.



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**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of product.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.

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