



M-SURE Digital Micrometer

Part No: MS-110 Series

Doc V: 1.0

Precautions

- This M-SURE micrometer is a precision measuring instrument, please avoid using excessive force and treat with care.
- The battery fitted is intended for the factory test procedure and therefore may not meet the specified battery life.
- Avoid exposure to all liquids, excessive humidity or temperature.
- Avoid exposure to bright sunlight.
- DO NOT rotate the spindle with the spindle lock engaged.
- Ensure the measuring surfaces are clean.
- Never apply voltage on any part of this digital micrometer or electric engrave the micrometer.
- Remove the battery if the micrometer is not being used for a long period of time.
- The spindle can not be removed, DO NOT travel past the upper or lower limit.
- Never use solvents to clean the micrometer Only use a soft cloth with cleaning oil.

Digital Micrometer



1. Frame
2. Anvil
3. Spindle
4. Spindle Lock
5. Display Head
6. Ratchet Thimble
7. Function Buttons

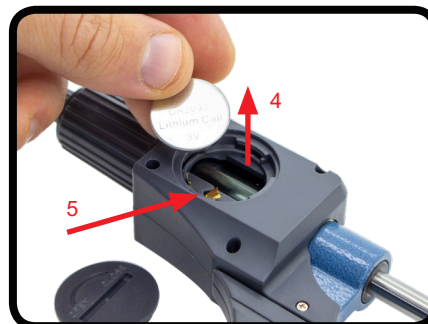
Battery Replacement



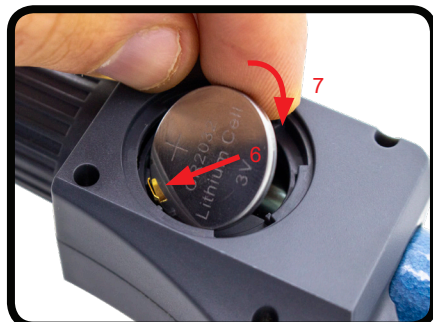
1. Insert the key into the battery cover.
2. Twist to unlock. DO NOT use excessive force.



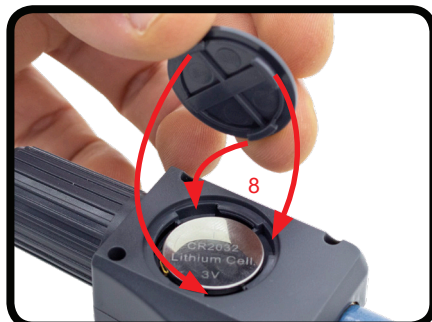
3. Lift out the battery cover.



4. Remove the battery. (A magnet tip tool can be used)
5. Locate the side spring battery contact.



6. Insert the replacement battery with its edge against the side battery contact.
7. Press down on the opposite edge.



8. Locate the three lugs on the battery cover with the three slots on the micrometer. Insert the battery cover.



9. Twist to lock. DO NOT use excessive force.





Setting a 0-25mm (0-1") Micrometer

1. Ensure the Spindle lock is not engaged.
2. Wipe clean measuring surfaces.
3. Close micrometer using ratchet stop.
4. Press the ZERO button to zero display.

DO NOT travel past the upper limit.




Setting a Micrometer larger than 25mm (1")

1. Ensure Spindle lock is not engaged.
2. Wipe clean measuring surfaces.
3. Insert the setting standard supplied.
4. Close micrometer using the ratchet thimble on to the setting standard.
5. Press the ZERO button to set the display to the offset size of the micrometer.


DO NOT travel past the upper or lower limit.




MM/INCH Conversion / Recall Setting Value / Turning ON/OFF

mm 25.40 


Press and hold MM/Inch to convert from metric to inch display.

in 1.000 

The display will indicate which units are being displayed.


in 1.000 

Pressing the ON/OFF...SET button once turns the micrometer ON/OFF.

in 1.000 

Pressing and holding the ON/OFF...SET button for 6 secs recalls the preset value in 25mm steps.


Micrometer with ABS Function

mm 0.00 


Close micrometer. Press ZERO button.

mm 10.00

Measure workpiece, for example 10mm.

mm ABS 5.00 

Press the ABS button once to change between ABS mode and INC mode. (not displayed)

mm 15.00 

Press ABS to switch back to Absolute display.

Trouble Shooting

Problem	Possible Cause	Solution
Flashing display or battery icon displayed	Low voltage Poor contact	Replace battery Clean contact
No display	Dead or weak battery Poor contact	Replace battery Clean contact
Erratic or frozen display	Moisture Contamination low voltage	Wipe clean, remove battery & allow to dry Replace battery
Erroneous reading	Low voltage Moisture Contamination Too much operating force Low ambient temperature	Replace battery Wipe clean, remove battery & allow to dry Use ratchet stop Store caliper at normal room temperature

