



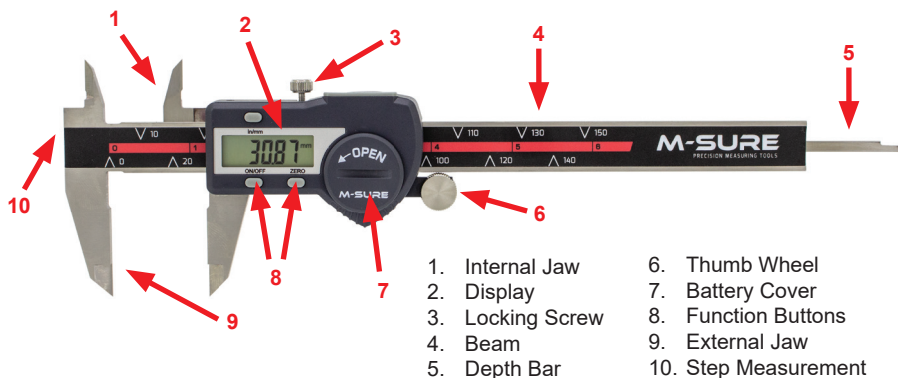
M-SURE Digital Calipers

Part No: MS-200 Series

Doc V: 1.0

Precautions

- Before using the Digital Caliper for the first time, wipe the Caliper with a clean cloth ideally soaked with cleaning oil.
- The Caliper is a precision measuring instrument. Avoid using excessive force and treat with care.
- The fitted battery 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.
- Never apply voltage on any part of this Digital Caliper or electric engrave the Caliper.
- Remove the battery if the Caliper is not being used for a long period of time.
- Never use solvents to clean the Caliper, only use a soft cloth with cleaning oil.



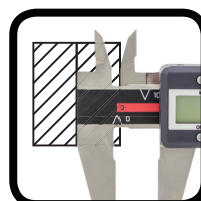
- Check the measuring surface is clean, switch on Caliper.
- Ensure the locking screw is loose and close Caliper. If the display is not reading zero, press zero button.
- Choose the display units as required (mm or inch).
- Close Caliper on workpiece to take desired measurement. Do not use excessive force.



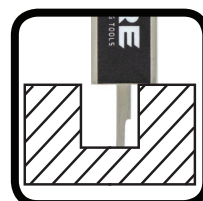
External



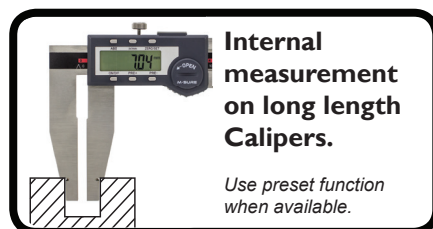
Internal



Step



Depth



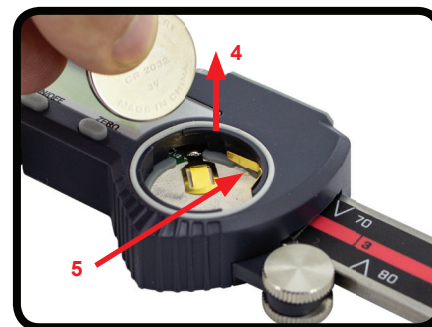
Battery Replacement



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 two lugs on the battery cover with the two slots on the Caliper. Insert the battery cover.



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





How to Zero Calipers

0.00 mm

ZERO

Press ZERO to clear.

Metric/Inch Conversion

25.40 mm

in/mm

Press in/mm to convert from inch to metric display.

1.000 in

in/mm

The display will indicate which units are being displayed.

Calipers with a Preset Value Function (MS-222 Series only)

0.00 mm

ZERO/SET

In 'INC' mode only; Press and hold the ZERO/SET button until SET flashes.

20.00 mm

PRE+/PRE-

Press PRE+ or PRE- to increase or decrease the value.

20.00 mm

ZERO/SET

Once the desired value is achieved, press the ZERO/SET button.

20.00 mm

ZERO/SET

To recall the entered Preset value press the ZERO/SET button, IN 'INC' MODE ONLY.

Caliper with ABS Function

0.00 mm

ZERO

Close Caliper. Press ZERO button.

10.00 mm

Measure workpiece, for example 10mm.

ABS 5.00 mm

ABS

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

15.00 mm

ABS

Press ABS to switch back to Absolute display.

Trouble Shooting

Problem	Possible Cause	Solution
Flashing display	Low voltage Poor contact	Replace battery Clean contact
No display	Dead or weak battery Poor contact	Replace battery Clean contact
Erratic or frozen display	Contamination between beam & head low voltage	Wipe Caliper clean Replace battery
Erroneous reading	Low voltage Contamination between beam & head Too much operating force Low ambient temperature	Replace battery Wipe Caliper clean Use pressure device Store Caliper at normal room temperature

