

## M-SURE Digital Depth Gauges

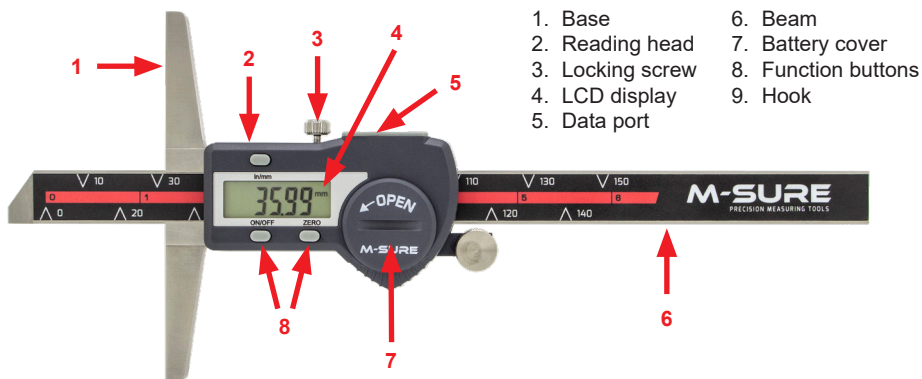
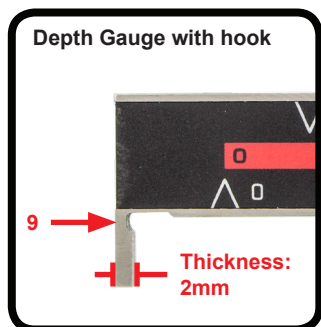
Part No: MS-535, 540 & 542 Series

Doc V: 1.0

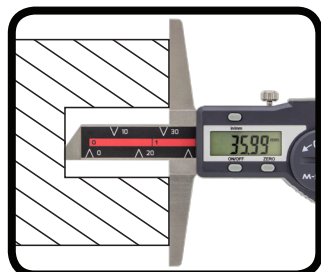
### Precautions

- Before using the Digital Depth Gauge for the first time, wipe with a clean cloth ideally soaked with cleaning oil.
- Digital Depth Gauges are precision measuring instruments. 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 Depth Gauge or electric engrave.
- Remove the battery if the Gauge is not being used for a long period of time.
- Never use solvents to clean. Only use a soft cloth with cleaning oil.

### Digital Depth Gauge



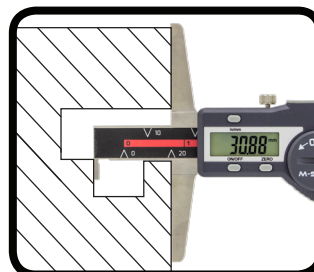
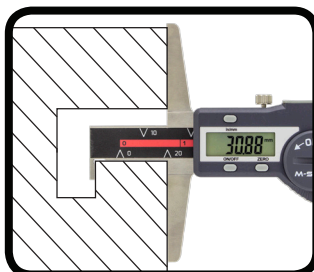
- |                  |                     |
|------------------|---------------------|
| 1. Base          | 6. Beam             |
| 2. Reading head  | 7. Battery cover    |
| 3. Locking screw | 8. Function buttons |
| 4. LCD display   | 9. Hook             |
| 5. Data port     |                     |



**Standard Depth Gauge  
Depth Measurement**



**Add hook thickness to  
the displayed value**



**Add hook thickness to  
the displayed value**

### 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 Depth Gauge. Insert the battery cover.



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

## Referencing Standard Depth Gauge

1. Ensure the locking screw is loose.
2. Wipe clean surface plate or similar flat service.
3. Ensure Gauge base is clean.
4. Place Gauge base on the surface plate.
5. Slide the beam downwards so measuring contact is in contact with the surface plate.
6. Press the zero button.



## Referencing Depth Gauge with hook

1. Ensure the locking screw is loose.
2. Ensure the Gauge base and hook is clean.
3. Close the Gauge.
4. Press the zero button.



## 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.

## 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 Depth Gauge clean Replace battery
Erroneous reading	Low voltage Contamination between beam & head Too much operating force Low ambient temperature	Replace battery Wipe Depth Gauge clean Use pressure device Store Depth Gauge at normal room temperature