


MICROTECH 141078122 Double Force Caliper



MICROTECH 141078122 Double Force Caliper User Manual

[Home](#) » [microtech](#) » MICROTECH 141078122 Double Force Caliper User Manual 

Contents

- 1 MICROTECH 141078122 Double Force Caliper
- 2 Product Usage Instructions
- 3 MEASUREMENTS
- 4 BUTTON FUNCTIONS
- 5 DIGITAL BLOCK CHARACTERISTIC
- 6 OPERATION INSTRUCTIONS
- 7 BATTERY REPLACEMENT
- 8 EXTERNAL MEASURING with FORCE 8N
- 9 INTERNAL MEASURING with FORCE 4N
- 10 INSTRUMENT FIGURE
- 11 Documents / Resources
 - 11.1 References
- 12 Related Posts



MICROTECH 141078122 Double Force Caliper



Specifications

Item No	Range	Resolution	Accuracy*	Force	Display	Protection
141078122 141078122C	0-150 mm, 0-6 inch	0.01 mm	8N ext, 4N int	Double force N	Swiss Digit	IP-67
141078222 141078222C	0-200 mm, 0-8 inch	0.01 mm	8N ext, 4N int	Double force N	Swiss Digit	IP-67
141078322 141078322C	0-300 mm, 0-12 inch	0.01 mm	8N ext, 4N int	Double force N	Swiss Digit	IP-67

Product Usage Instructions

Cleaning Instructions:

Wipe the measuring surfaces of the caliper with a clean cloth soaked in gasoline to remove anti-corrosion oil. Then wipe them with a clean dry cloth.

Caliper Function:

This caliper has an Auto switch on/off function. Move the electronic module to switch on the caliper. It will automatically switch off after 10 minutes without any movement.

Battery Replacement:

If needed, open the battery cover and replace the battery (type CR2032) ensuring correct polarity. Replace the battery if the display blinks or is absent.

Double Force Control Measuring:

External Measuring with Force 8N:

- Contact external jaws to each other
- Push Force roll up to double-lines coming left 4N

Internal Measuring with Force 4N:

- Contact internal jaws inside the setting ring
- Preset the setting ring size on the caliper
- Push the Force roll up to the right lines on the Force indicator and press the SET button for 2 seconds for internal measuring

FAQ

- **Q: How do I know when to replace the battery?**
 - **A:** If the display blinks or is absent, it suggests replacing the battery with a new CR2032-type battery.
- **Q: What is the range of the caliper?**
 - **A:** The caliper comes in three variations with ranges of 0-150mm, 0-200mm, and 0-300mm, or 0-6

inches, 0-8 inches, and 0-12 inches respectively.



Calibration ISO 17025:2017

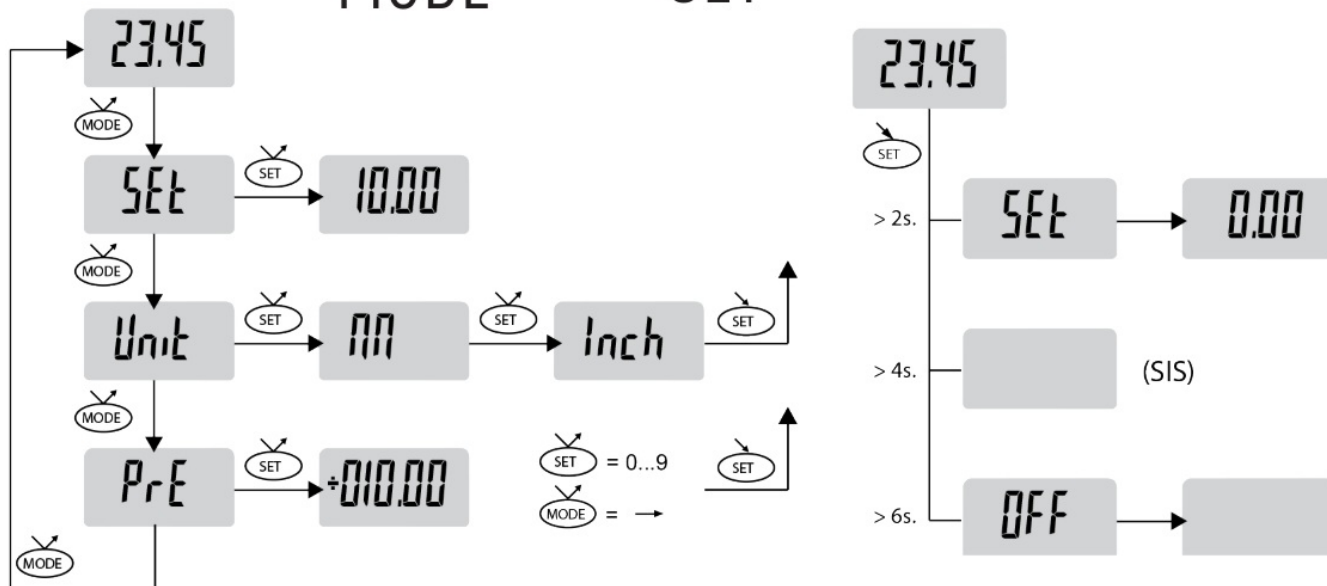


ISO 9001:2015

MEASUREMENTS

Item No	Range		Resolution	Accuracy*	Double force	Display	Protection	Carbide jaws
	mm	inch	mm	μm	N			
141078122	0-150	0-6"	0,01	±10	8 ext 4 int	Swiss Digit height 11mm	IP-67	
141078122C				•				
141078222	0-200	0-8"		±10				
141078222C				•				
141078322	0-300	0-12"		±20				
141078322C				•				

BUTTON FUNCTIONS



DIGITAL BLOCK CHARACTERISTIC

Item No	Range
	mm
Repeatability	10 μ
Max slider speed	max 2,5 m/s
Display refresh rate	>10/s
Mean power consupt.	45 μ A
Battery life	8000 h
IP specification	IP67 (IEC60529)

OPERATION INSTRUCTIONS

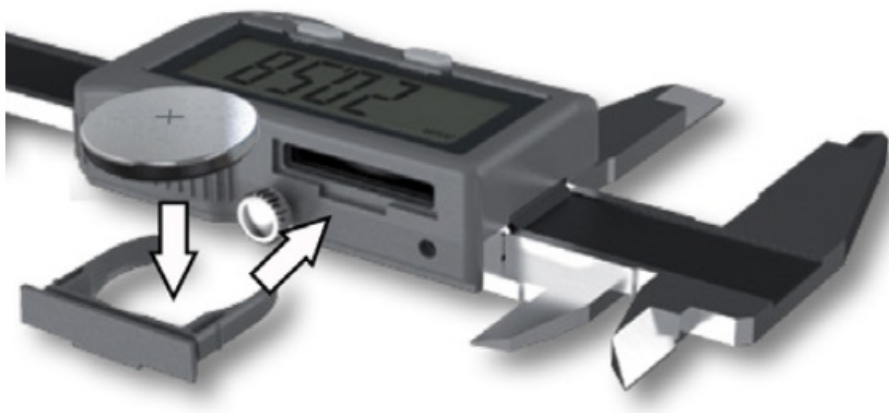
Wipe with a clean cloth, soak in gasoline, measure the surface of the frame, and gauge calipers to remove anti-corrosion oil. Then wipe them with a clean dry cloth.

This caliper has Auto switch on/ off function:

- move the electronic module for the switch on the caliper
- after 10 minutes without any moving caliper will switch off

After finishing work wipe the measuring surfaces of the caliper with a cloth soaked in gasoline and apply anti-corrosion oil

BATTERY REPLACEMENT



If necessary, open the battery cover; insert the battery (type CR2032) according to the polarity of the electrodes. Blinking display information or absence suggests replacing battery.

DOUBLE FORCE CONTROL MEASURING

EXTERNAL MEASURING with FORCE 8N

ZERO SETTING FOR EXTERNAL



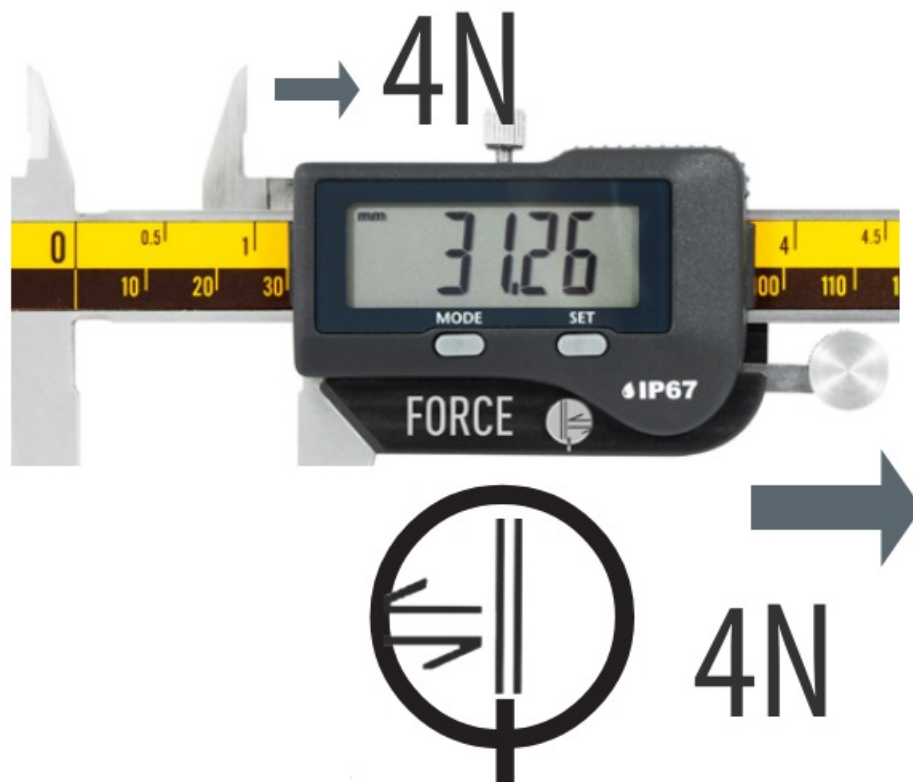
- Contact external jaws to each other
- Push Force roll up to double-lines come left on Force indicator and press SET button 2s.

EXTERNAL MEASURING

- When double-lines on Force indicator in left position – Measuring Force on External jaws **8±2N**.

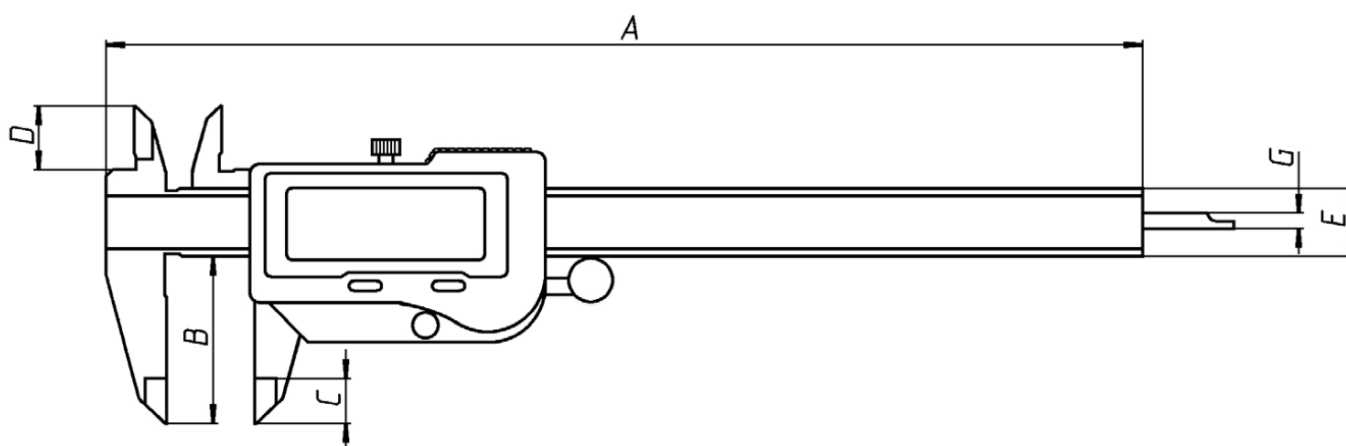
INTERNAL MEASURING with FORCE 4N

PRESET INTERNAL VALUE

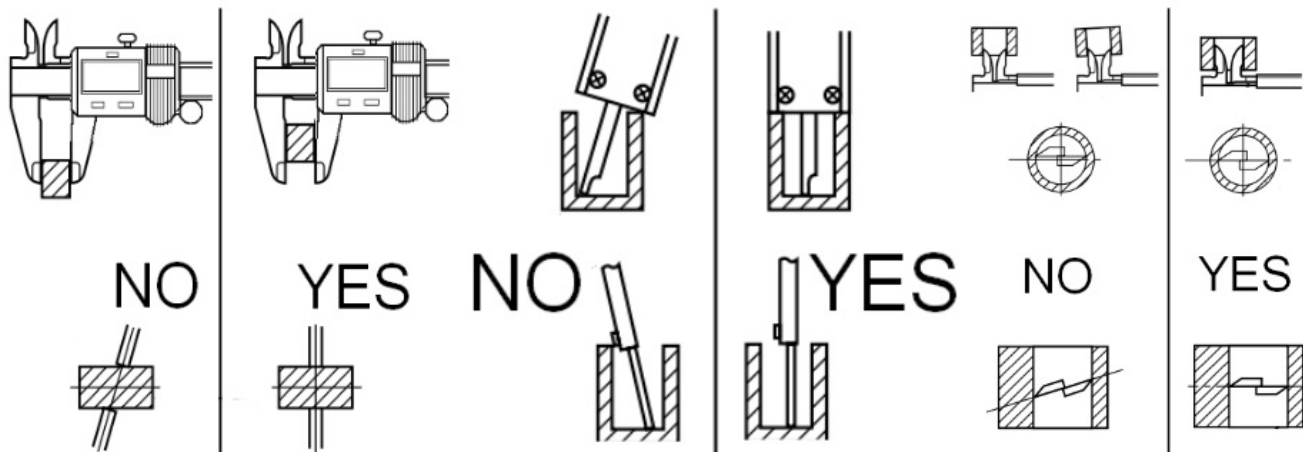


- Contact internal jaws inside the setting ring
- PRESET setting ring size on the caliper
- Push Force roll up to the right lines on the Force indicator and press SET button 2s.
- When double-lines on Force indicator in the right position – Measuring Force on Internal jaws $4 \pm 1\text{N}$.

INSTRUMENT FIGURE



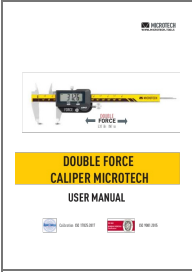
Item No	DIMENSIONS						Display	Protection
	A	B	C	D	E	G		
	mm	mm	mm	mm	mm	mm		IP
141078122	235	40	10	16	16	4x1,4	Swiss Digit height 11mm	IP-67
141078122C								
141078192								
141078192C								
141078222	290	50	10	18	16	4x1,4	Swiss Digit height 11mm	IP-67
141078222C								
141078292								
141078292C								
141078322	395	60	11	21	16	4x1,4	Swiss Digit height 11mm	IP-67
141078322C								
141078392								
141078392C								



Change without prior notice

WWW.MICROTECH.TOOLS

Documents / Resources

	<p>MICROTECH 141078122 Double Force Caliper [pdf] User Manual 141078122, 141078122C, 141078222, 141078222C, 141078322, 141078322C, 141078122 Double Force Caliper, 141078122, Double Force Caliper, Force Caliper, Caliper</p>
--	--

References

- [User Manual](#)

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.