



microtech 141078192 Wireless Double Force Caliper User Manual

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microtech 141078192 Wireless Double Force Caliper



Product Information

The MICROTECH Wireless Double Force Caliper is a precision measuring tool designed for accurate external and internal measurements. It features a range of 0-150mm (0-6 inches) with a resolution of 0.01mm (0.0004 inches) and an accuracy of ±8N for external measurements and ± 4N for internal measurements. The caliper is equipped with carbide jaws for durability and has a Swiss digit display with a height of 11mm. It is IP-67 rated for protection against dust and water.

Key Features:

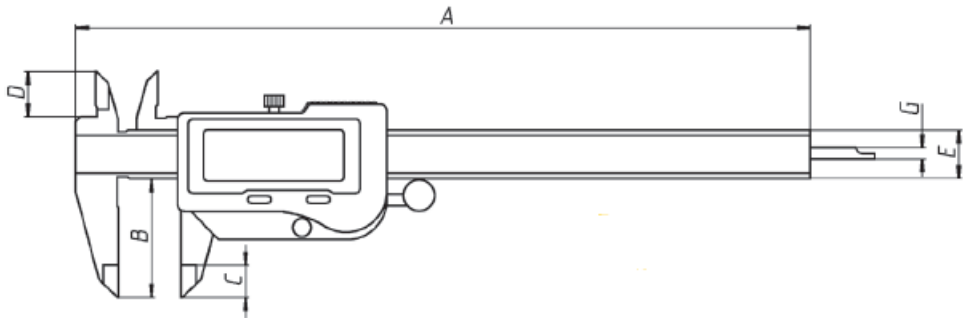
- Range: 0-150mm (0-6 inches)
- Resolution: 0.01mm (0.0004 inches)
- Accuracy: ±8N (external), ±4N (internal)
- Carbide jaws
- Wireless data output
- IP-67 protection

MODIFICATIONS

Item No	Range		Resoluti on	Accuracy *	Doubl e force	Display	Protectio n	Carbid e jaws	Wireles s data o utput
	mm	inch							
141078192	0-150	0-6”	0,01	±10	8 ext 4 int	Swiss D igit heig ht 11m m	IP-67		•
141078192C								•	•
141078292	0-200	0-8”		±10					•
141078229C								•	•
141078392	0-300	0-12”		±20					•
141078329C								•	•

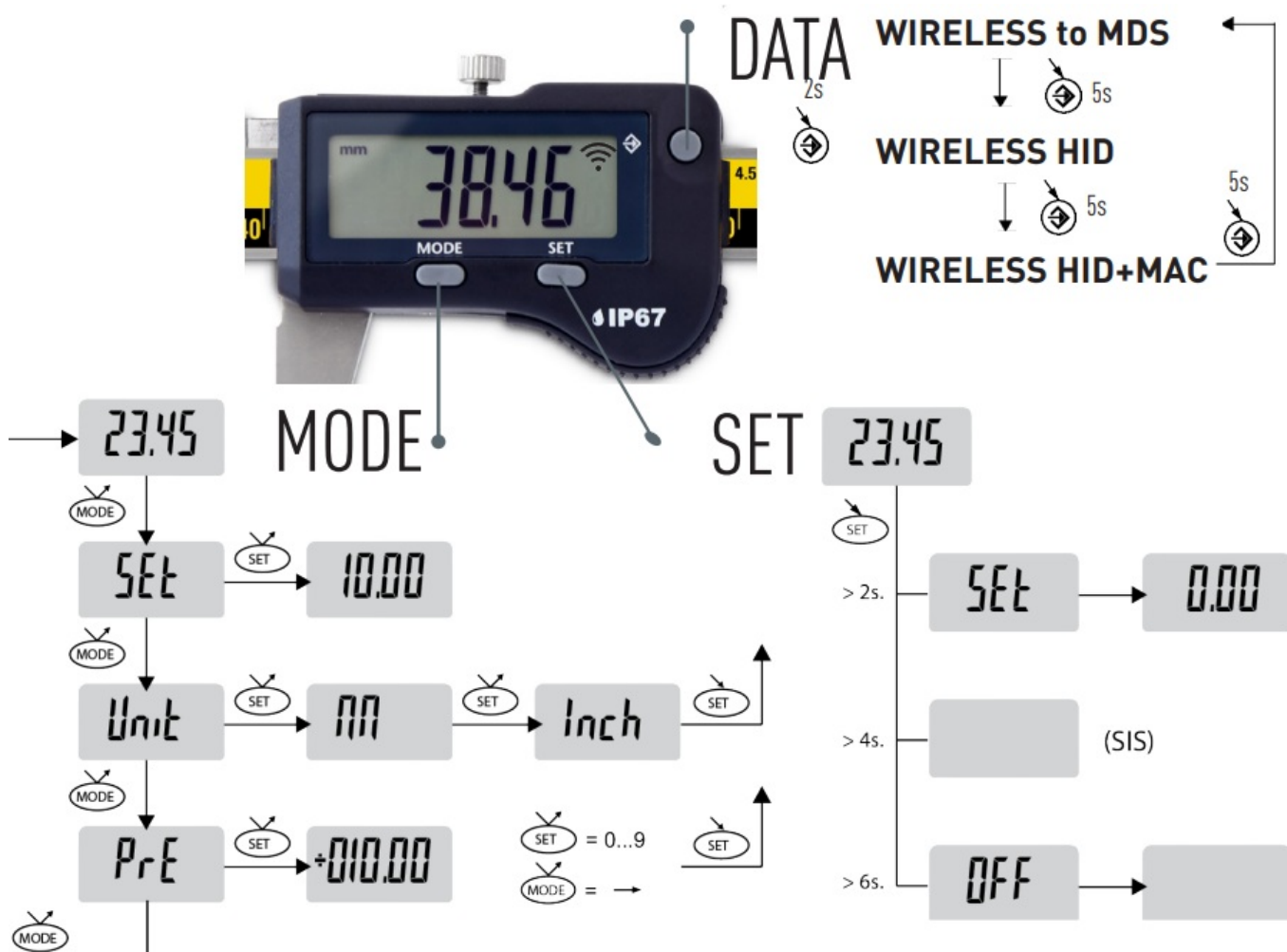
*MAX ERROR FOR INTERNAL END DEPTH MEASUREMENTS DIN-862

INSTRUMENT FIGURE



RANGE	DIMENSIONS						Display	Protection
	A	B	C	D	E	G		
	mm	mm	mm	mm	mm	mm		IP
0-150	235	40	10	16	16	4×1,4	Swiss Digit height 11mm	IP-67
0-200	290	50	10	18	16	4×1,4		
0-300	395	60	11	21	16	4×1,4		

BUTTONS



DOUBLE FORCE CONTROL MEASURING

- EXTERNAL MEASURING with FORCE 8N



- ZERO SETTING FOR EXTERNAL

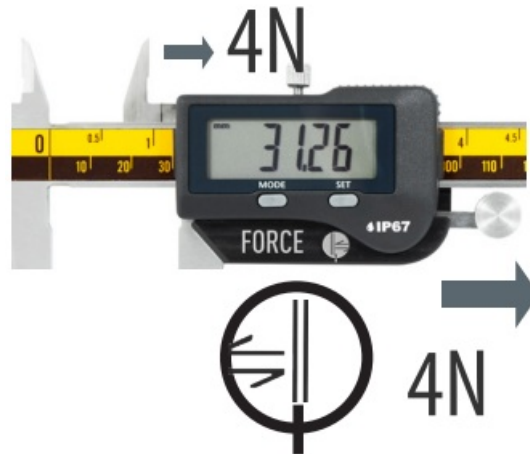
- Contact external jaws to each other

- Push Force roll up to double-lines comes 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 $8 \pm 2\text{N}$.

- **INTERNAL MEASURING with FORCE 4N**



- **PRESET INTERNAL VALUE**

- Contact internal jaws inside setting ring
- PRESET setting ring size on caliper
- Push Force roll up to right lines on Force indicator and press SET button 2s.

- **INTERNAL MEASURING**

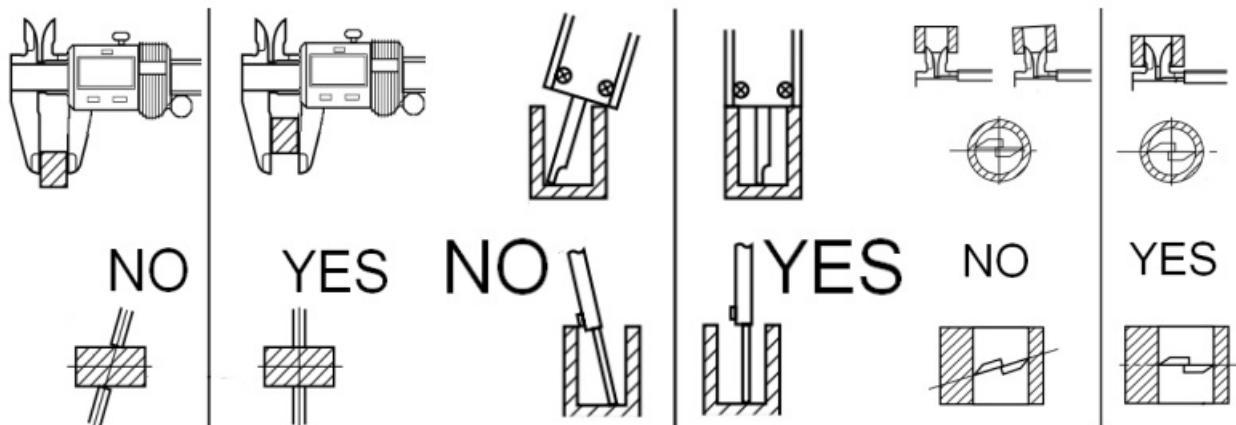
- When double-lines on Force indicator in right position – Measuring Force on Internal jaws $4 \pm 1\text{N}$.

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.



CORRECT MEASURING



WIRELESS DATA TRANSFER MODES

MICROTECH caliper with Built-in Wireless data output module for transfer results.

MODE		TRANSFER DATA	Switch ON	Switch OFF	Select MODE	DATA send	
						indic.	
WIRELESS TO MDS	STANDARD	MICROTECH MDS app Windows, Android, iOS, MacOS	 2s.	auto switch off when disconnect	STANDARD or ECO in MDS app	 blinking non stop	 push, or on MDS app
	ECO (GATT)		all time active			no	
WIRELESS HID		Direct to any customer app (like keyboard)	 2s	auto switch off when disconnect or no data 10 min	 5s. and connect BT on PC or Tablet	 blinking 2 sec	 push
WIRELESS HID+MAC							

WIRELESS DATA TRANSFER CONNECTION

- SWITCH ON WIRELESS module push  button 2 sec;
- In WIRELESS TO MDS  non-stop blinking on display up to connection to MDS app and selecting STANDARD or ECO sub-mode.
- In STANDARD submode data transfer 4 times/sec and  all time on display.
- Push  button to save data to MDS app or use buttons and Timer inside app.
- In ECO (GATT) submode caliper ready to transfer data any time with no indication.
- Push  button to save data on MDS app.
- For selecting next mode push  5 sec.
- WIRELESS HID and WIRELESS HID+MAC  blinking 2 sec on display and will be ready for searching on Tablet, Smartphone or Computer Bluetooth connections.
- After succesfull connection save data to customers app with push  button.

POWER CONSUMPTION

MODE		TRANSFER DATA
WIRELESS OFF		45 µA
WIRELESS TO MDS	STANDARD	2.0 mA
	ECO (GATT)	45-100 µA
WIRELESS HID		0.4 mA
WIRELESS HID+MAC		0.4 mA

DOWNLOAD MICROTECH MDS APP

Link to to Download MICROTECH MDS app for Windows, Android, iOS, macOS on www.microtech.tools

DOWNLOAD APP



VIDEO MANUAL

Video manual with Connection on MICROTECH YouTube <https://www.youtube.com/@Microtech-Instrumentsor> by QR code scanning.



www.microtech.tools

Documents / Resources

 The image shows the front cover of a user manual. At the top, it says "MICROTECH". Below that is a photograph of the caliper. The main title in bold is "WIRELESS DOUBLE FORCE CALIPER MICROTECH". Below the title, it says "USER MANUAL". At the bottom, there are small logos for "MICROTECH" and "141078192".	microtech 141078192 Wireless Double Force Caliper [pdf] User Manual 141078192 Wireless Double Force Caliper, 141078192, Wireless Double Force Caliper, Double Force Caliper, Force Caliper
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