Manuals+ — User Manuals Simplified.

MICROTECH

141078192 Microtech
Wireless Double Force
Caliper Microtech

141078192 Microtech Wireless Double Force Caliper Microtech User Manual

Contents

MICROTECH

141078192 Microtech Wireless Double Force Caliper Microtech

Specifications

- Brand: MICROTECH
- Website: **www.microtech.tools**
- IP Rating: IP67
- Origin: Swiss
- Features: Wireless, Double Force, Calibration ISO 17025:2017, ISO 9001:2015

Product Usage Instructions

Caliper Range and Resolution

The caliper is available in various ranges (mm and inch) with corresponding resolutions as follows:

Item No	Range	Resolution	Accuracy*	Double Force (N)	Jaws	Protection

Battery Replacement

If the display blinks or is absent, follow these steps for battery replacement:

1. Open the battery cover.
2. Insert a CR2032 battery with correct polarity.
3. Close the cover.

Measuring Procedures

External Measuring with Force 8N

1. Contact external jaws to each other for zero setting.
2. Push Force roll up to double-lines on the left side.

Internal Measuring with Force 4N:

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

Power Consumption Modes

- WIRELESS OFF
- WIRELESS TO MDS
- STANDARD ECO (GATT)
- WIRELESS HID
- WIRELESS HID+MAC

Frequently Asked Questions (FAQ):

Q: How do I connect the caliper wirelessly to the MDS app?
A: Switch on the wireless module by pressing the button for 2 seconds. In the WIRELESS TO MDS mode, the display will blink until it connects to the MDS app. You can then select STANDARD or ECO sub-mode for data transfer.

WIRELESS DOUBLE FORCE CALIPER MICROTECH

USER MANUAL

**WIRELESS DOUBLE FORCE caliper IP67**

Item No	Range		Resolution	Accuracy *	Double force	Display	Protection	Carbide jaws	Wireless data output
	mm	inch	mm	µm	N				
141078192	0-150	0-6"		±10					•
141078192C								•	•
141078292	0-200	0-8"		±10	8 ext	Swiss Digit height 11mm	IP-67		•
141078229C			0,01		4 int			•	•
141078392	0-300	0-12"		±20					•
141078329C								•	•

MICRON WIRELESS DOUBLE FORCE caliper IP67

Item No	Range		Reso-lution	Accu-racy*	Double force	Jaws	Protection	Preset	mm/inch	Auto on/off	WIRELESS
	mm	inch	mm	µm	N	mm					
141079192	0-150	0-6"		±5		40/16		•	•	•	•
141079292	0-200	0-8"	0,001	±8	8 ext 4 int	50/17	IP-67	•	•	•	•
141079392	0-300	0-12"		±10		60/20		•	•	•	•

*MAX ERROR FOR INTERNAL END DEPTH MEASUREMENTS DIN-862

INSTRUMENT FIGURE
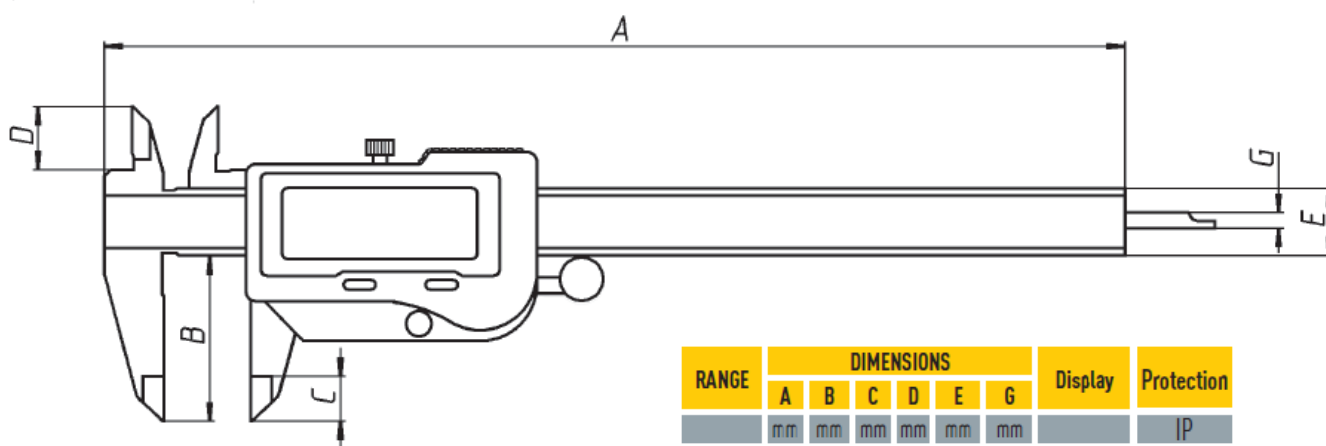
RANGE	DIMENSIONS						Display	Protection
	A	B	C	D	E	G		IP
	mm	mm	mm	mm	mm	mm		
0-150	235	40	10	16	16	4x1,4	Swiss Digit height 11mm	IP-67
0-200	290	50	10	18	16	4x1,4		
0-300	395	60	11	21	16	4x1,4		

BUTTONS

DATA
2s

WIRELESS to MDS
↓ ⊕ 5s
WIRELESS HID
↓ ⊕ 5s
WIRELESS HID+MAC

MODE

23.45 → SEt → 10.00

Unit → ∩∩ → Inch

PrE → ÷010.00   SET = 0...9   MODE = →

SET

23.45

> 2s.   SEt → 0.00

> 4s.   (SIS)

> 6s.   OFF →
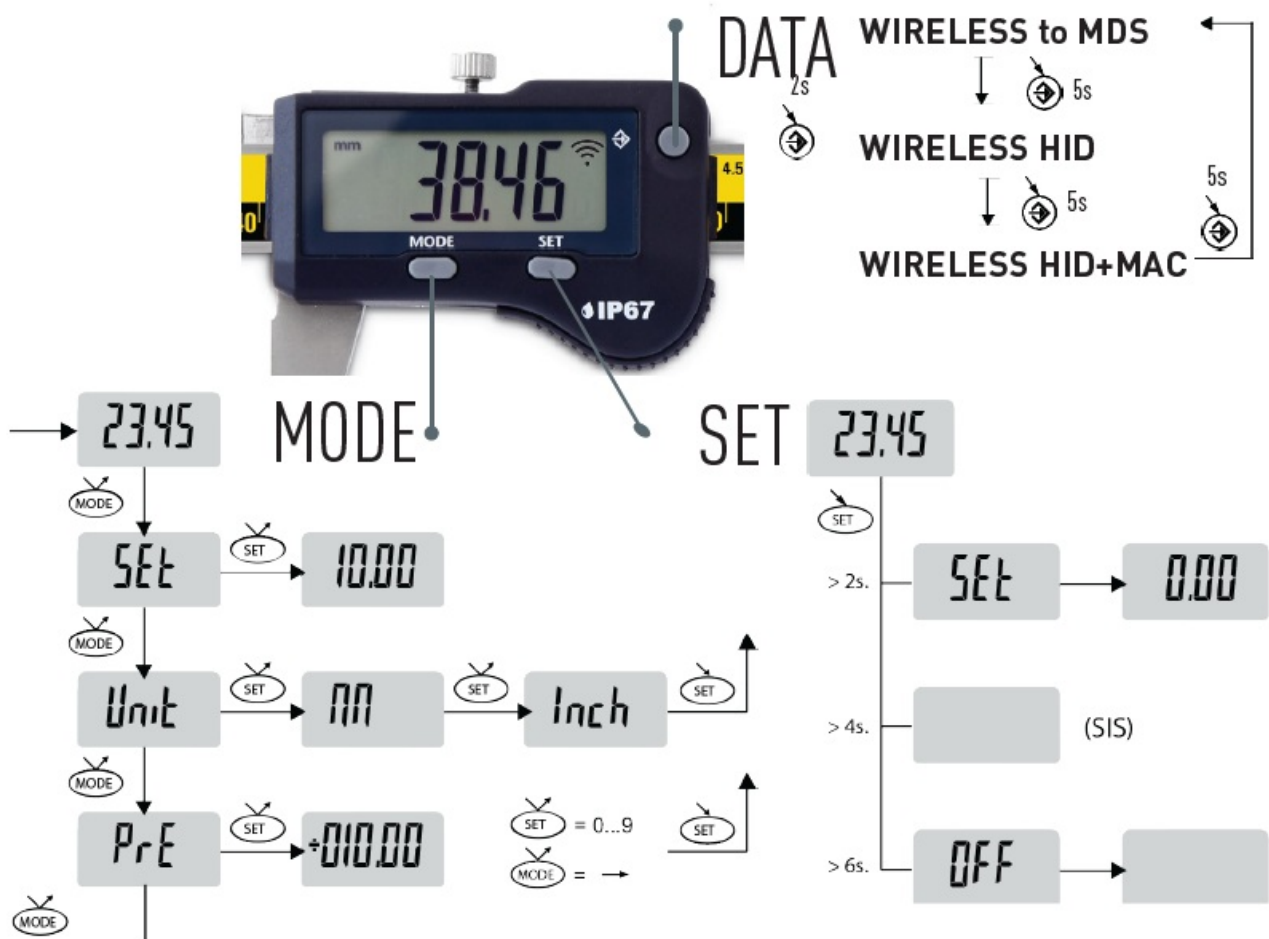
BATTERY REPLACEMENT

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.
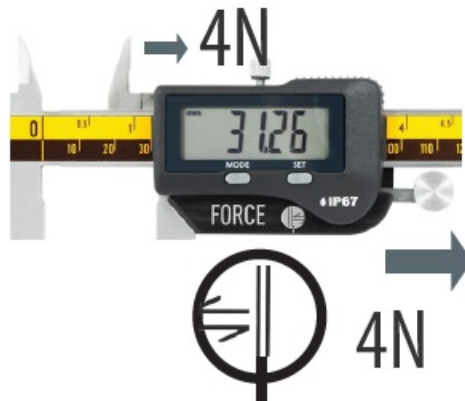

DOUBLE FORCE CONTROL MEASURING

EXTERNAL MEASURING with FORCE 8N

ZERO SETTING FOR EXTERNAL

- Contact external jaws to each other
- Push Force roll up to double-lines 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±2N.

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±1N.

CORRECT MEASURING
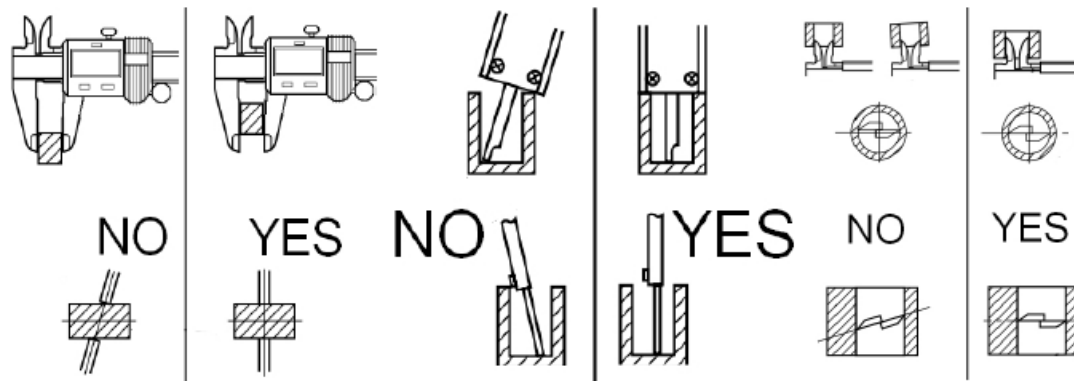
POWER CONSUMPTION

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

WARNING!
IN THE PROCESS OF WORKING WITH CALIPERS SHOULD BE AVOIDED: Scratches on the measuring surfaces;
Measuring the size of object in the process of machining;
Shocks or dropping, avoid bending of rod or other surfaces.

WIRELESS TO MDS APP 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.

ECO mode recomended for battery economy

WIRELESS DATA TRANSFER CONNECTION
DOWNLOAD MICROTECH MDS APP Link to to Download MICROTECH MDS app for Windows, Android, iOS, MAcOS on **www.microtech.tools**

DOWNLOAD APP

WIRELESS HID CONNECTION

- 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.

- You can easily identify the current mode by searching for WIRELESS devices, where the device name will indicate the mode, either MICROTECH HID or MICROTECH HID + MAC.

NOTICE:
Always remember to disconnect and remove the device from your Bluetooth settings before changing modes to avoid conflicts and ensure a smooth transition.

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	indic.	DATA send
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 non stop	push
WIRELESS HID+MAC							

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

INDUSTRY 4.0 INSTRUMENTS

DATA 2s

WIRELESS to MDS
↓ ⊕ 5s
WIRELESS HID
↓ ⊕ 5s
WIRELESS HID+MAC

FORCE CONTROL
1-20N

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Change without prior notice

Documents / Resources

MICROTECH 141078192 Microtech Wireless Double Force Caliper Microtech [pdf] User Manual
141078192, 141078292, 141078392, 141079192, 141079392, 141078192 Microtech Wireless Double Force Caliper Microtech, 141078192, Microtech Wireless Double Force Caliper Microtech, Wireless Double Force Caliper Microtech, Double Force Caliper Microtech, Force Caliper Microtech, Caliper Microtech, Microtech

References

- ✉ **Home - MICROTECH**
- **User Manual**