

IP67  **SWISS**
ELECTRONICS



WIRELESS DOUBLE FORCE CALIPER MICROTECH

USER MANUAL



Calibration ISO 17025:2017



ISO 9001:2015

WIRELESS DOUBLE FORCE CALIPER IP67

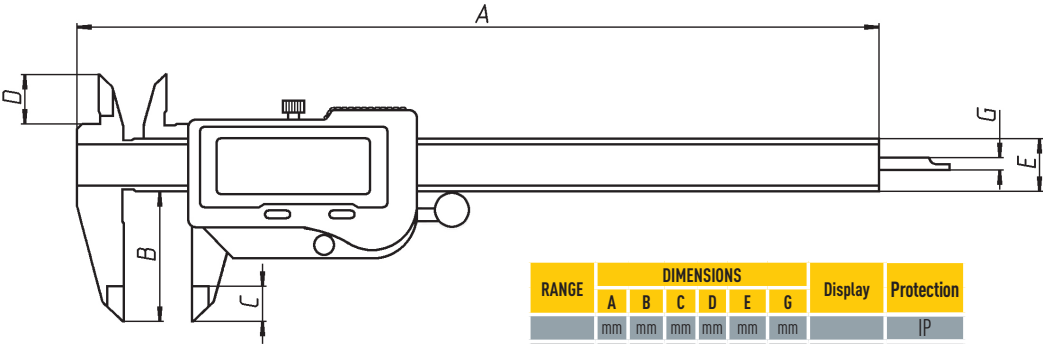
Item No	Range		Resolution	Accuracy*	Double force	Display	Protection	Carbide jaws	Wireless data output
	mm	inch	mm	µm	N				
141078192	0-150	0-6"	0,01	±10	8 ext 4 int	Swiss Digit height 11mm	IP-67		•
141078192C								•	
141078292	0-200	0-8"		±10				•	•
141078229C								•	•
141078392	0-300	0-12"		±20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

MICRON WIRELESS DOUBLE FORCE CALIPER IP67

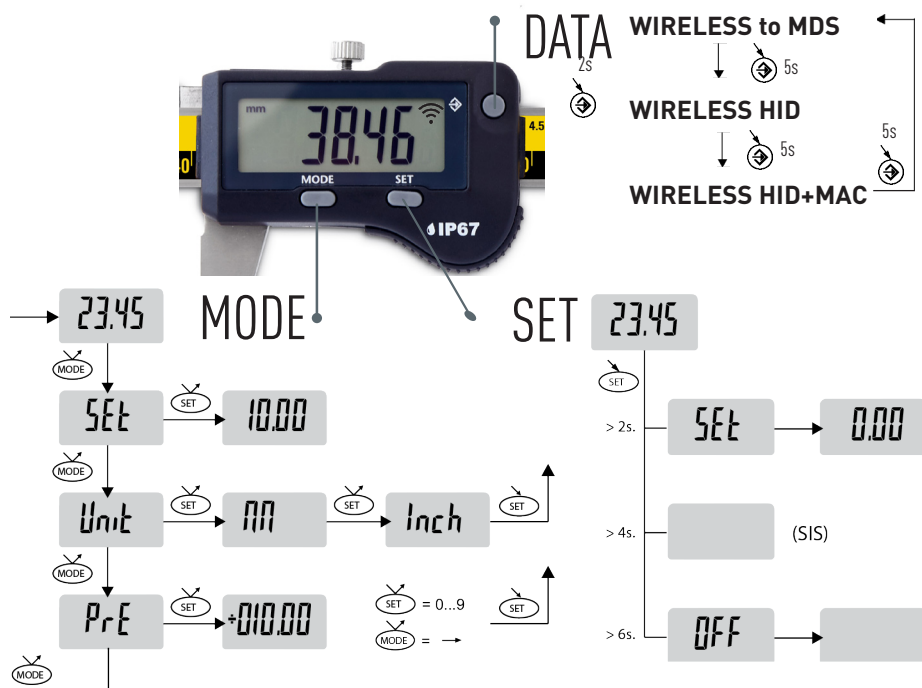
Item No	Range		Resolution	Accuracy*	Double force	Jaws	Protection	Preset	mm/inch	Auto on/off	WIRELESS
	mm	inch	mm	µm	N	mm					
141079192	0-150	0-6"	0,001	±5	8 ext	40/16	IP-67	•	•	•	•
141079292	0-200	0-8"		±8		50/17		•	•	•	•
141079392	0-300	0-12"		±10	4 int	60/20		•	•	•	•

*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	4x1,4	Swiss	IP-67
0-200	290	50	10	18	16	4x1,4	Digit height	
0-300	395	60	11	21	16	4x1,4	11mm	

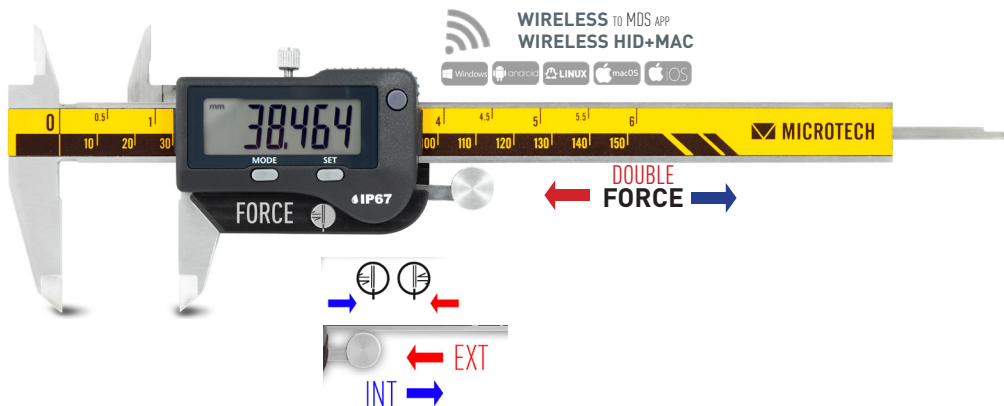


BATTERY REPLACEMENT

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



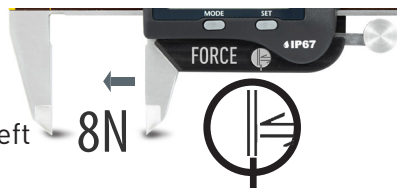
EXTERNAL MEASURING with FORCE 8N

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 $8 \pm 2\text{N}$.



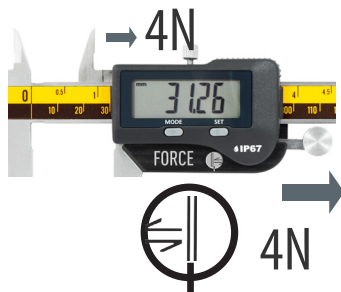
INTERNAL MEASURING with FORCE 4N

PRESET INTERNAL VALUE

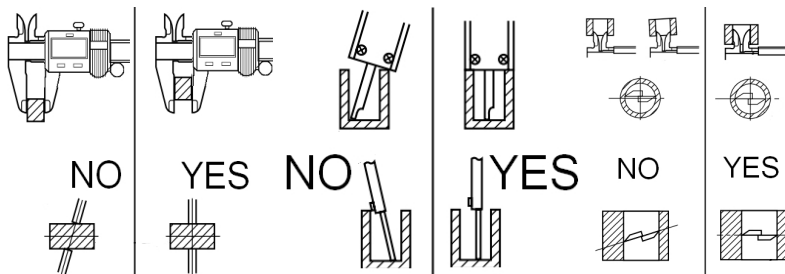
- Contact internal jaws inside setting ring
- PRESET setting ring size on caliper
- Push Force roll up to right lines on Force indicator and press SET button 2s.

INTERNAL MEASURING

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



CORRECT MEASURING



POWER CONSUMPTION

MODE		TRANSFER DATA
WIRELESS OFF		45 μ A
WIRELESS TO MDS	STANDARD	2.0 mA
	ECO (GATT)	45-100 μ A
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 recommended for battery economy

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

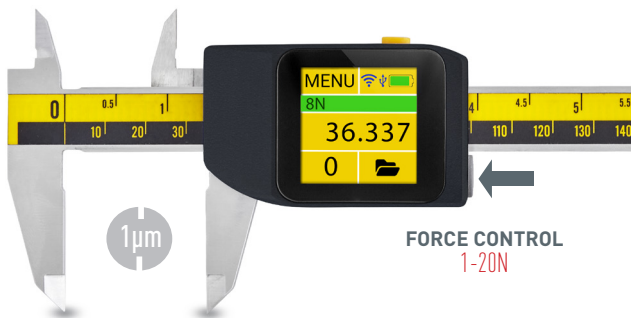
MODE		TRANSFER DATA	Switch ON	Switch OFF	Select MODE		DATA send
						indic.	
WIRELESS TO MDS	STANDARD	MICROTECH MDS app Windows, Android, iOS, MacOS	 2s.	auto switch off when disconnect	STANDARD or ECO in MDS app	 blinking non stop	 push, or on MDS app
	ECO (GATT)		all time active			no	
WIRELESS HID		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 non stop	 push
WIRELESS HID+MAC							



VIDEO MANUAL

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





MICROTECH

innovative measuring instruments

61001, Kharkiv, Ukraine, str. Rustaveli, 39

tel.: +38 (057) 739-03-50

www.microtech.ua

tool@microtech.ua

Change without prior notice