MICROTECH CALIPER IP67 Long Jaw Digital User Manual

Contents

MICROTECH CALIPER IP67 Long Jaw Digital

SPECIFICATION

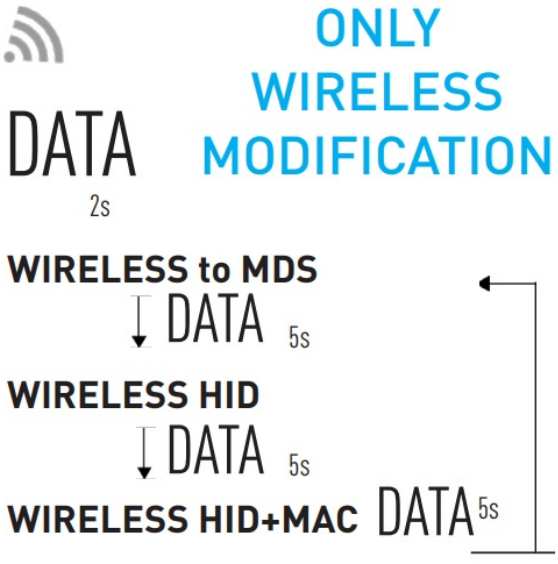
EXTRA LONG jaw caliper IP67

Item No	Range		Resol.	Jaws	Accuracy	Weight	Protection	mm/inch	Preset	ABS	Display
	mm	inch	mm	mm	µm	kg					
142408445	0-800	0-32"	0,001	400	±25	3,9	IP67 Al case	•	•	•	Big screen Swiss electronics IP67 in AL case
142408444			0,01		±30	3,9		•	•	•	
142411445	0-1000	0-40"	0,001	400	±30	4,3		•	•	•	
142411444			0,01		±40	4,3		•	•	•	
142411464				600	±50	4,7		•	•	•	
142418445	0-1800	0-60"	0,001	400	±40	6.2		•	•	•	
142418444			0,01		±50	6.2		•	•	•	
142418464				600	±60	6,6		•	•	•	
142120144	0-2000	0-80"		400	±60	17,5		•	•	•	
142120164				600	±85	18,0		•	•	•	
142120104				1000	±120	19,0		•	•	•	
142125144	0-2500	0-100"		400	±90	20.0		•	•	•	
142125164				600	±105	20,5		•	•	•	
142125104				1000	±140	21.5		•	•	•	
142130144	0-3000	0-120"		400	±100	24.0		•	•	•	
142130164				600	±110	24.5		•	•	•	
142130104				1000	±160	25.5		•	•	•	
142135144	0-3500	0-140"		400	±120	26.5		•	•	•	
142135164				600	±160	27.0		•	•	•	
142135104				1000	±240	28.0		•	•	•	

WIRELESS EXTRA LONG jaw caliper IP67

Item No	Range		Resol.	Jaws	Accuracy	Weight	Protection	mm/inch	Preset	ABS	WIRELESS	Display
	mm	inch	mm	mm	µm	kg						
142408447	0-800	0-32"	0,001	400	±25	3,9	IP67 Al case	•	•	•	•	Big screen Swiss electronics IP67 in AL case
142408446			0,01		±30	3,9		•	•	•	•	
142411447	0-1000	0-40"	0,001	400	±30	4,3		•	•	•	•	
142411446			0,01		±40	4,3		•	•	•	•	
142411466				600	±50	4,7		•	•	•	•	
142418447	0-1800	0-60"	0,001	400	±40	6.2		•	•	•	•	
142418446			0,01		±50	6.2		•	•	•	•	
142418466				600	±60	6,6		•	•	•	•	
142120146	0-2000	0-80"		400	±60	17,5		•	•	•	•	
142120166				600	±85	18,0		•	•	•	•	
142120106				1000	±120	19,0		•	•	•	•	
142125146	0-2500	0-100"		400	±90	20.0		•	•	•	•	
142125166				600	±105	20,5		•	•	•	•	
142125106				1000	±140	21.5		•	•	•	•	
142130146	0-3000	0-120"		400	±100	24.0		•	•	•	•	
142130166				600	±110	24.5		•	•	•	•	
142130106				1000	±160	25.5		•	•	•	•	
142135146	0-3500	0-140"		400	±120	26.5		•	•	•	•	
142135166				600	±160	27.0		•	•	•	•	
142135106				1000	±240	28.0		•	•	•	•	

BUTTON FUNCTIONS



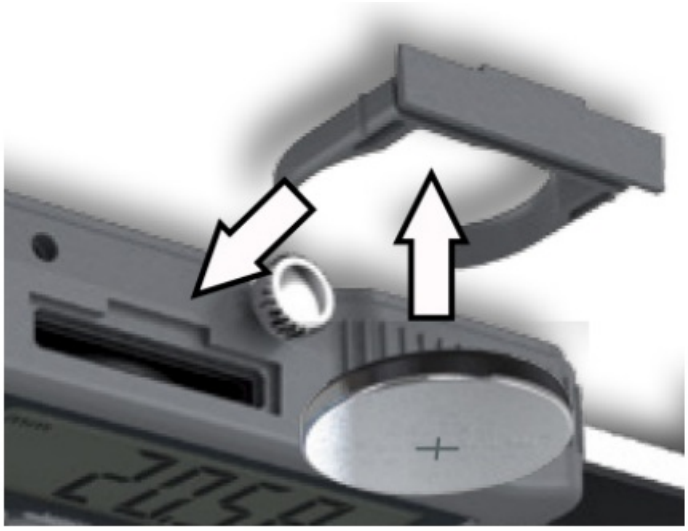
SET – Functions setting: PRESET, LIMITS, UNITS, MIN/MAX
MODE – Favorite key to one of the most used function

0 – Setting 0, PRESET value

ONLY WIRELESS MODIFICATION

DATA – Switch on WIRELESS module/data transfer

BATTERY REPLACEMENT



CR2032 BATTERY (3V)

POWER CONSUMPTION

MODE		
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

OPERATION INSTRUCTIONS

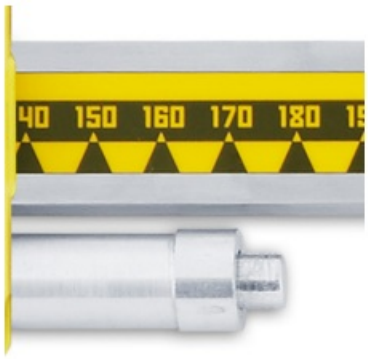
Wipe with a clean cloth, soaked in gasoline, measuring surface of the frame and gauge calipers to remove anti-corrosion oil. Then wipe them with a clean dry cloth.
If necessary, open the battery cover; insert the battery (type CR2032) according to the polarity of the electrodes.

This caliper has Autoswitch on/ off function:

- move electronic module for switch on caliper
- after 10 minutes without any moving caliper will switch off
    - During the measurement, measuring jaws should to sum to the measured object without knocking.
    - During the measurement avoid warps of measuring surfaces of the instrument.

- Measuring surface must be fully in contact with the measurement object

FORCE CONTROL



FORCE CONTROL MODULE

ONLY FORCE MODIFICATION

- Check the ZERO SETTING of the caliper. Sum the measuring jaws to contact with each other. Force is generated with a measuring force. Push Force module to create the recommended force (10-15N) by the block adjustment and press ZERO button.
- During the measurement, measuring jaws should to sum to the measured object without knocking.
- During the measurement avoid warps of measuring surfaces of the instrument. Measuring surface must be fully in contact with the measurement object.
- Optimal measuring force for this size caliper 10-15N (depend on jaw lenght). During a measuring process use Force module to improve repeatability.

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 DATA TRANSFER MODES

ONLY WIRELESS MODIFICATION

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

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

DOWNLOAD APP

DOWNLOAD MDS APP FOR MICROTECH DEVICES
WIRELESS CONNECTION FROM www.microtech.ua,
GooglePlay & App Store

Download Windows App

Download on the App Store

GET IT ON Google play

WIRELESS DATA TRANSFER CONNECTION

ONLY WIRELESS MODIFICATION

WIRELESS TO MDS APP CONNECTION

To switch between WIRELESS modes (WIRELESS, HID, and HID + MAC), press and hold the data transmission button for 5 Seconds. 5 sec;

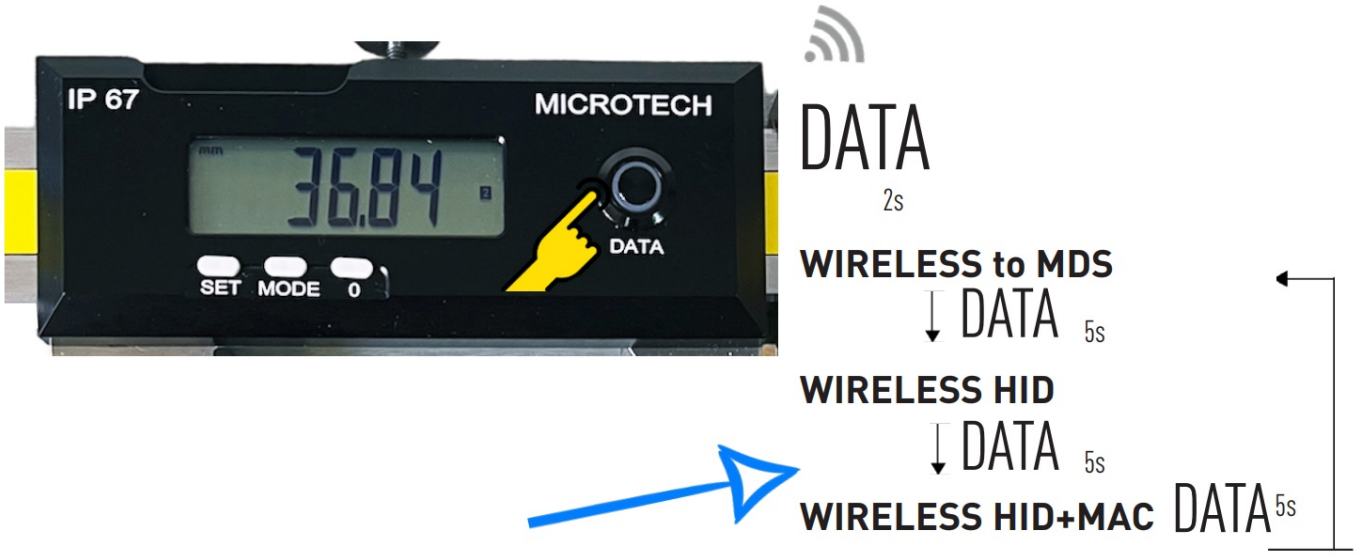
- In WIRELESS TO MDS non-stop blinking on display up to connection to MDS app and selecting STANDARD or ECO sub-mode.
- In STANDARD submode data transfer 4 times/sec and all time on display. Push DATA button to save data to MDS app or use buttons and Timer inside app.
- In ECO (GATT) submode caliper ready to transfer data any time with no indication. Push DATA button to save data on MDS app.
- For selecting next mode push DATA button 5 sec.
- ECO recomended for battery economy !!!

WIRELESS HID CONNECTION

To switch between wireless modes (WIRELESS, HID, and HID + MAC), press and hold the data transmission button for 5 Seconds.

By default, digital wireless devices start in WIRELESS mode, which is indicated by a constantly blinking wireless icon on the display. When you hold the button for 5 Seconds for the first time, WIRELESS mode is activated.
Press and hold the button again for 5 Seconds to switch to HID mode. After a third press and hold for 5 Seconds, the device will enter HID + MAC mode.
You can easily identify the current mode by searching for Bluetooth 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.



INDUSTRY 4.0 INSTRUMENTS

Change without prior notice

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Documents / Resources

	MICROTECH CALIPER IP67 Long Jaw Digital [pdf] User Manual 142408445, 142408444, 142411445, 142411444, 142418445, 142418444, 142418464, 142120144, 142120164, 142120104, 142125144, 142125164, 142125104, 142130144, 142130164, 142130104, 142135144, 142135164, 142135104, CALIPER IP67 Long Jaw Digital, CALIPER IP67 , Long Jaw Digital, Jaw Digital, Digital

References

- Home - MICROTECH
- User Manual