

IP67



SWISS
ELECTRONICS



LONG JAW DIGITAL CALIPER IP67

USER MANUAL



Calibration ISO 17025:2017



ISO 9001:2015

LONG JAW

DIGITAL CALIPER IP67

Item No	Range		Resol	Jaw	Accur.	Bar section	Weight	Protection	mm/inch	Preset	ABS		
	mm	inch										mm	mm
141073512	0-500	0-20"	0,01	150	±30	23x6	1,7	IP67	Al case	•	•	•	
141073515				300	±40		23x6			2,7	•	•	•
141073611	0-600	0-24"		100	±30	32x7	1,7			•	•	•	
141073712	0-1000	0-40"		150	±40		32x7			3,3	•	•	•
141073715				300	±60	32x7	5,7			•	•	•	
141073812	0-1500	0-60"		150	±50	42x8	5,2			•	•	•	
141073815				300	±70		42x8			7,1	•	•	•
141073912	0-2000	0-80"		150	±60	42x8	7,1			•	•	•	
141073915					±80		42x8			8,6	•	•	•
141073255	0-2500	0-100'		300		±90	53x8				•	•	•
141073305	0-3000	0-120'				±100					•	•	•
141073405	0-4000	0-160'				±130					•	•	•
141073505	0-5000	0-200'				±160					•	•	•

MICRON LONG JAW

DIGITAL CALIPER IP67

Item No	Range		Resol	Jaw	Accur.	Bar section	Weight	Protection	mm/inch	Preset	ABS	
	mm	inch										mm
141073301	0-300	0-12"	0,001	100	±15	23x6	1.11	IP67 Al case	•	•	•	
141073501	0-500	0-20"							1,45	•	•	•
141073502				150	±20				1,75	•	•	•
141073601	0-600	0-24"		100			1,66		•	•	•	
141073702	0-1000	0-40"		150	±30	32x7	3,32		•	•	•	

MICRON FORCE LONG JAW

DIGITAL CALIPER IP67

Item No	Range		Resol	Jaw	Accur.	Force	Bar section	Weight	Protection	mm/inch	Preset	ABS	
	mm	inch											mm
141073361	0-300	0-12"	0,001	100	±10	10N	23x6	1.11	IP67	Al case	•	•	•
141073561	0-500	0-20"			150			±15			1.45	•	•
141073562				1.75							•	•	•
141073661	0-600	0-24"		100	15N	32x7	1.66	•			•	•	
141073762	0-1000	0-40"		150			3.32	•			•	•	



**FORCE
CONTROL
MODULE**

SPECIFICATION

WIRELESS LONG JAW DIGITAL CALIPER IP67



Item No	Range		Resol	Jaw	Accur.	Bar section	Weight	Protection	mm/inch	Preset	ABS	WIRELESS	
	mm	inch											mm
141073592	0-500	0-20"	0,01	150	±30	23x6	1,75	IP67	•	•	•	•	
141073595				300	±40		23x6		2,65	•	•	•	•
141073691	0-600	0-24"		100	±30	32x7	1,66		•	•	•	•	
141073792	0-1000	0-40"		150	±40		32x7		3,32	•	•	•	•
141073795				300	±60	5,70	•		•	•	•		
141073892	0-1500	0-60"		150	±50	42x8			Al case	•	•	•	•
141073895				300	±70					•	•	•	•
141073992	0-2000	0-80"		150	±60		•			•	•	•	
141073995					±80		•			•	•	•	
141073265	0-2500	0-100'			±90	53x8				•	•	•	•
141073315	0-3000	0-120'		300	±100					•	•	•	•
141073415	0-4000	0-160'			±130					•	•	•	•
141073515	0-5000	0-200'			±160					•	•	•	•

WIRELESS MICRON LONG JAW DIGITAL CALIPER IP67

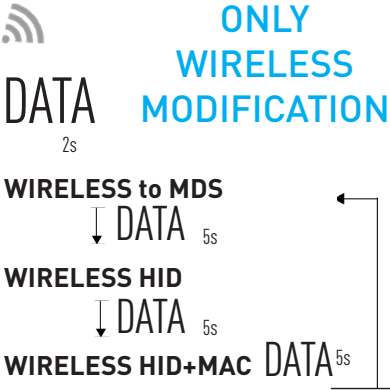
Item No	Range		Resol	Jaw	Accur.	Bar section	Weight	Protection	mm/inch	Preset	ABS	WIRELESS
	mm	inch										
141073371	0-300	0-12"	0,001	100	±15	23x6	1.11	IP67	•	•	•	•
141073571	0-500	0-20"			±20		1,45		•	•	•	•
141073572				150			1,75		•	•	•	•
141073671	0-600	0-24"		100	1,66	•	•		•	•		
141073772	0-1000	0-40"		150	±30	32x7	3,32		•	•	•	•

WIRELESS MICRON FORCE LONG JAW DIGITAL CALIPER IP67

Item No	Range		Resol	Jaw	Accur.	Bar section	Weight	Protection	mm/inch	Preset	ABS	WIRELESS
	mm	inch										
141073381	0-300	0-12"	0,001	100	±15	23x6	1.11	IP67	•	•	•	•
141073581	0-500	0-20"			±20		1,45		•	•	•	•
141073582				150			1,75		•	•	•	•
141073681	0-600	0-24"		100	1,66	•	•		•	•		
141073782	0-1000	0-40"		150	±30	32x7	3,32		•	•	•	•



**FORCE
CONTROL
MODULE**



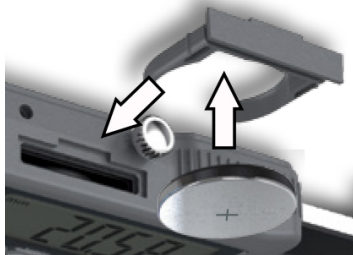
SET - Functions setting: *PRESET, LIMITS, UNITS, MIN/MAX*

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 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

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:

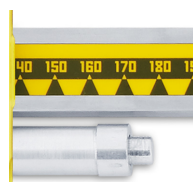
- move electronic module for switch on caliper
- after 10 minutes without any moving caliper will switch off

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 **ONLY FORCE MODIFICATION**



FORCE CONTROL MODULE

- 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.

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	DATA 2s.	auto switch off when disconnect	STANDARD or ECO in MDS app	 blinking	DATA push, or on MDS app
	ECO (GATT)		all time active			no	DATA
WIRELESS HID		Direct to any customer app (like keyboard)	DATA 2s	auto switch off when disconnect or no data 10 min	DATA 5s.	 blinking	push
WIRELESS HID+MAC					and connect BT on PC or Tablet		

DOWNLOAD APP

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



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 recommended 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.

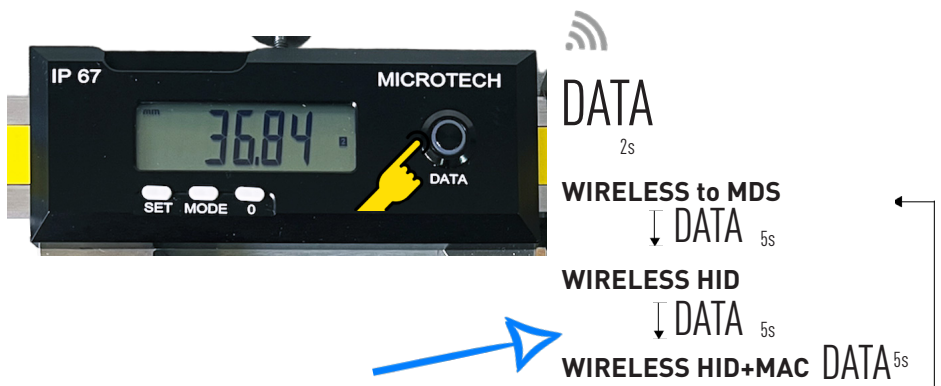
By default, digital wireless devices start in **WIRELESS mode**, which is indicated by a constantly blinking wireless icon on the display. When you hold the button for 5 Seconds for the first time, WIRELESS mode is activated.

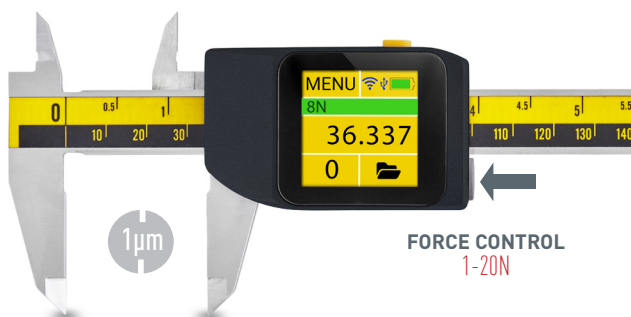
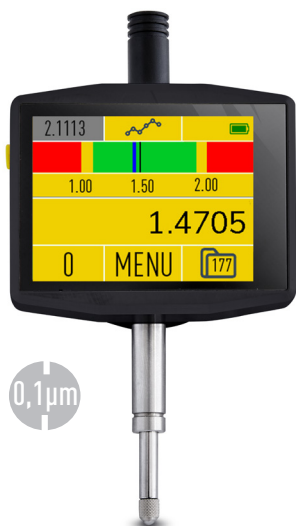
Press and hold the button again for 5 Seconds to switch to HID mode. After a third press and hold for 5 Seconds, the device will enter HID + MAC mode.

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.





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