

# LOW FORCE IP67 CALIPER MICROTECH

## USER MANUAL



Calibration ISO 17025:2017



ISO 9001:2015

Item No	Range	Resolution	Accuracy*	Jaw		Measuring force	Protection class
				External	Internal		
141077153	0-150	0,01	$\pm 0,020$	40	16	0,8	IP-67
141077253	0-200	0,01	$\pm 0,020$	50	20	0,8	IP-67
141077353	0-300	0,01	$\pm 0,030$	60	20	0,8	IP-67

\*MAX ERROR FOR INTERNAL END DEPTH MEASUREMENTS DIN-862

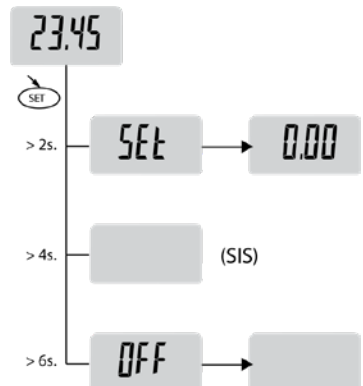
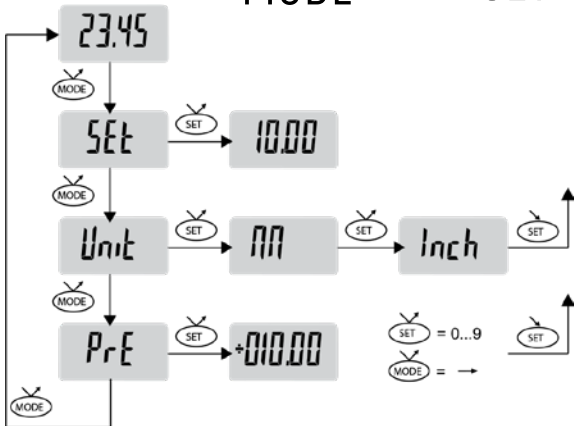
## BUTTON FUNCTIONS & BATTERY REPLACEMENT



MODE      SET



BATTERY REPLACEMENT



# 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. Blinking display information or absence suggests replacing battery.

This caliper has Autoswitch on/ off function:

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

Check the zero setting of the caliper. Sum the measuring jaws to contact with each other. Force is generated with a measuring force indication. To create the low force (**0,8N**) by the block adjustment and press SET button 2s.

During the measurement, measuring jaws should to sum to the measured object without knocking.

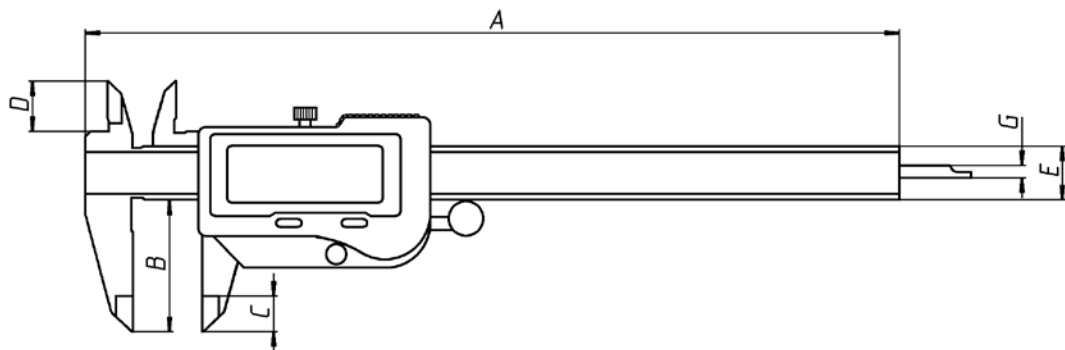
During the measurement avoid warps of measuring surfaces of the instrument. Measuring surface must be fully in contact with the measurement object.

Measuring force for this size caliper  $0,8 \pm 0,3N$ . During a measuring process control measuring Low-force on Measuring force indication window.

After finishing work wipe the measuring surfaces of the caliper with a cloth soaked in gasoline and apply anticorrosion oil

## DIGITAL BLOCK CHARACTERISTIC

Item No	Range
	mm
Repeatability	10 $\mu$
Max slider speed	max 2,5 m/s
Display refresh rate	>10/s
Mean power consupt.	45 $\mu$ A
Battery life	8000 h
IP specification	IP67 (IEC60529)



Item No	DIMENSIONS						Display	Protection
	A	B	C	D	E	G		
	mm	mm	mm	mm	mm	mm		IP
141078122	235	40	10	16	16	4x1,4	Swiss Digit height 11mm	IP-67
141078122C								
141078192								
141078192C	290	50	10	18	16	4x1,4	Swiss Digit height 11mm	IP-67
141078222								
141078222C								
141078292	395	60	11	21	16	4x1,4	Swiss Digit height 11mm	IP-67
141078292C								
141078322								
141078322C								
141078392								
141078392C								

