

# DOUBLE FORCE CALIPER MICROTECH

## USER MANUAL



Calibration ISO 17025:2017

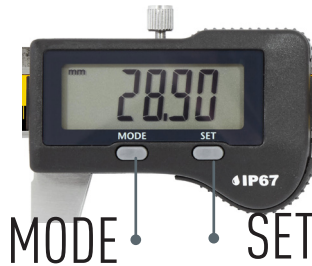
ISO 9001  
BUREAU VERITAS  
Certification



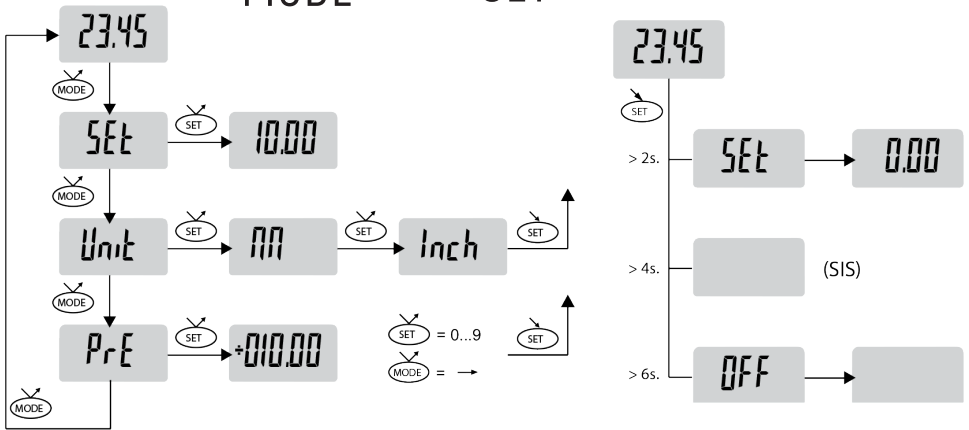
ISO 9001:2015

Item No	Range		Resolution	Accuracy*	Double force	Display	Protection	Carbide jaws
	mm	inch						
141078122	0-150	0-6"	0,01	±10	8 ext 4 int	Swiss Digit height 11mm	IP-67	•
141078222	0-200	0-8"		±10				•
141078322	0-300	0-12"		±20				•

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



## BUTTON FUNCTIONS



## DIGITAL BLOCK CHARACTERISTIC

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

# 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.

This caliper has Autoswitch on/ off function:

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

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

## 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  $8\pm 2N$ .



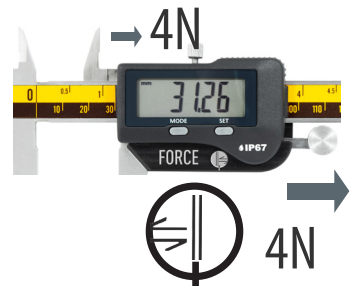
### INTERNAL MEASURING with FORCE 4N

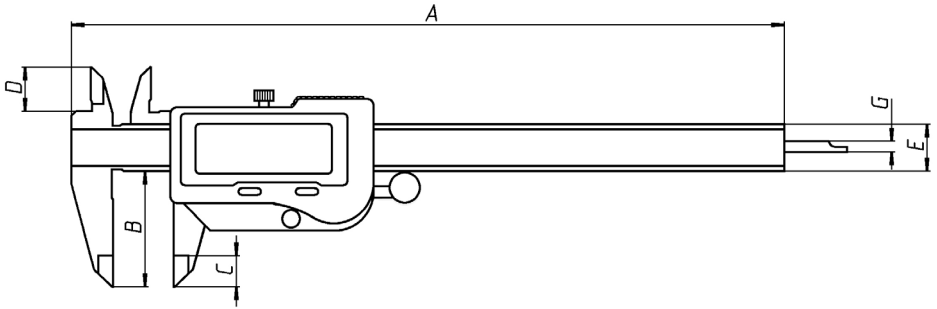
#### PRESET INTERNAL VALUE

- 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  $4\pm 1N$ .





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								
141078222	290	50	10	18	16	4x1,4	Swiss Digit height 11mm	IP-67
141078222C								
141078292								
141078292C								
141078322	395	60	11	21	16	4x1,4	Swiss Digit height 11mm	IP-67
141078322C								
141078392								
141078392C								

