

LONG JAW MICRON TABLET CALIPER USER MANUAL



Calibration ISO 17025:2017



ISO 9001:2015



Item No	Range		Resolution	Jaws	Carbide jaws	Accuracy	eForce	Display	Data output		
	mm	inch	mm	mm		µm	N				
141005216	0-500	0-20"	0,01	100	+	±30	1-20	Color 2,4" Touch-screen	WIRELESS+USB		
141005216C			0,001			±20					
141005217			0,01	150	+	±30					
141005226			0,001			±25					
141005226C			0,01	300		±30					
141005227			0,001			±30					
141005256			0-630	0-25"	0,01	100					±30
141005257					0,001						±20
141006216					0,01	300					±30
141006217					0,001						±20
141006256	0,01	150			+	±30					
141006257	0,001					±30					
141010216	0-1000	0-40"			0,01	150				+	±50
141010216C					0,001						±40
141010217					0,01	300					±50
141010256					0,001						±40
141010257			0,01	150		±60					
141015216			0,01			300				±60	
141015256			0-2000	0-80"	0,01	150					±60
141020216					0,01						300
141020256			0-2500	0-100"	0,01	300		±90			
141025256					0,01			300	±120		
141030256	0-3000	0-120"	0,01	300		±130					
141040256			0,01			300	±130				

TECHNICAL DATA

Parameters	
LED display	color 2,4 inch
Resolution	320x240
Indication system	MICS 4.0
Power supply	Rechargeable Li-Pol battery
Battery capacity	500 mAh
Charging port	micro-USB / Magnetic
Case material	Aluminium
Buttons	Switch (Multifuntional), Reset
Data transfer	Wireless + USB HID

Clean the oil from the measuring surfaces of caliper by cloth.

DO NOT LEAVE UNCHARGED CALIPER FOR A LONG TIME.

THIS MAY RESULT TO INTERNAL BATTERY FAILURE!



RESET



MULTIFUNCTIONAL BUTTON

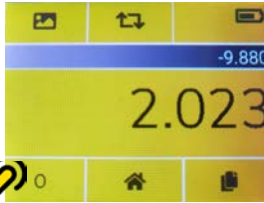
SWITCH ON DEVICE - button push (1 sec)

SWITCH OFF DEVICE - button push (3 sec)/ auto switch off

DATA TRANSFER - programming throw menu

EXIT MENU - exit from menu

ORIGIN ZERO SET



FOR ORIGIN ZERO SET

- PUT JAWS TO ZERO POSITION

- PUSH **0** button during 2 sec.

FORCE

SELECTED FORCE 1-20N

LINE COLOR - FORCE STATUS

Modes:

Indication mode indication with color upon reaching a given Force

Automatic mode gives possibility saving to memory or transfer to app actual value upon reaching a given Force (1-20N).



← PUSH

CHARGING



For charging connect USB cable or magnetic cable

BUILT-IN BATTERY - rechargeable Li-Pol battery

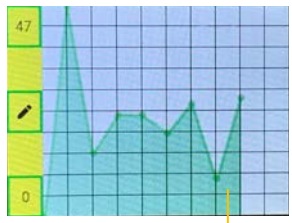




MENU NAVIGATION

GRAPH MODE

- Max 25 values
- Can indicate + values



GRAPH MODE

ANALOG MODE

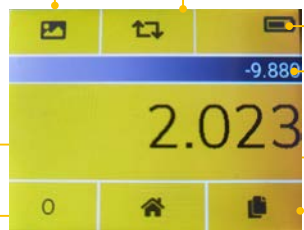
- Analog scale indicating in microns
- Can be selecting range on scale for GO/NOGO control
- LIMITS selecting for color indication



Zero setting

Actual value

ANALOG MODE



Battery level

Last Saved value

Actual value

Zero setting

Colour can be changed according function

MAIN MENU

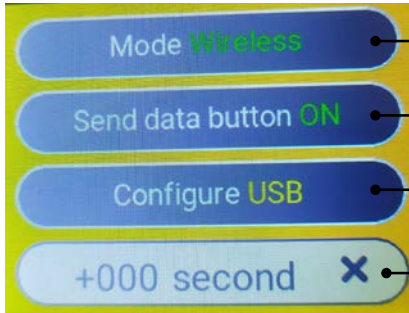


Each value can be Deleted or Send to application

MEMORY WITH STATISTIC



- Basic STATISTIC functions:
- MAX - maximum saved value
 - MIN - minimum saved value
 - AVG - average value
 - D - variance VAR(x)



Switch on Wireless or USB data transmission

Mode **Wireless**

Send data button **ON**

Activating multifunctional button to save value to memory or send data by touchscreen or button push

Configure **USB**

USB configuration

+000 second **X**

Select timer period
Saving data to memory or Wireless by Timer



Brightness



Brightness level

Sleep mode **OFF**

- Sleep OFF (15 s low brightness off, sleep off)
- Sleep 15s (15 s low brightness on, sleep off)
- Sleep ON (15 s low brightness on, sleep on)

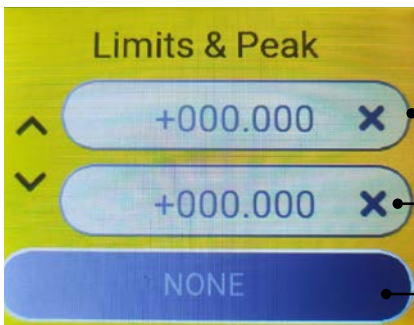
DISABLE

8

Selecting Force value from 1 to 20 N

Indication mode indication with color upon reaching a given Force

Automatic mode gives possibility saving to memory or transfer to app actual value upon reaching a given Force (1-20N).



Limits & Peak

> +000.000 **X**

UPPER limit in **LIMITS MODE**

< +000.000 **X**

LOW limit in **LIMITS MODE**

NONE

NONE- disactivating mode

LIMITS - GO/NOGO control with color indication

MAX - indicating MAX measured value

MIN - indicating MIN measured value

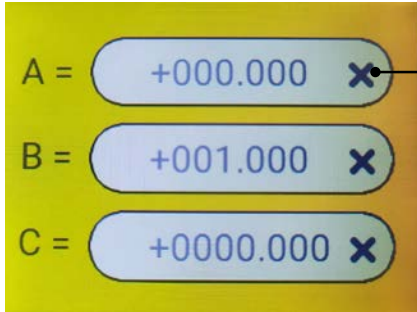
MAX, MIN or LIMITS indicating by color on main screen

LIMITS can be indicating in ANALOG MODE



MICS SYSTEM FUNCTIONS

FORMULA Ax^2+Bx+C



Long push digit to select value

EXAMPLE OF FORMULA USING

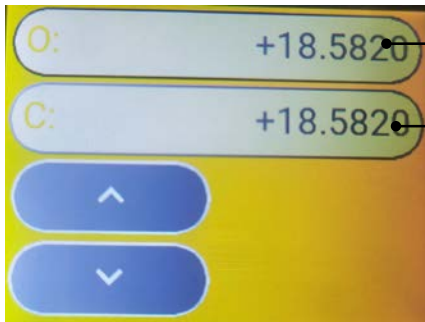
Standard measuring	A=0, B=1, C=0
PRESET 50mm	A=0, B=1, C=50
Value magnification x3	A=0, B=3, C=0
Square value	A=1, B=0, C=0



7 types of material for selection

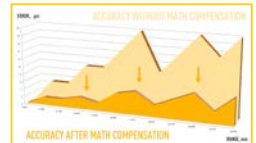
- 7 types of material:
- glass, quartz, solid alloys
 - granite, graphite
 - Fe, Ni, Fe alloys
 - stainless steel
 - cooper, Cu alloys
 - aluminium, at alloys
 - acrylic sheet

Manual Temperature setting



actual values

correct values by up&down button



Mathematical correction points with big error to normal values

CONNECTION



MICROTECH

MDS FOR WINDOWS APPLICATION



MDS FOR ANDROID APPLICATION



MDS FOR IOS APPLICATION





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