



SUB-MICRON COMPUTERIZED TEST INDICATOR



ISO17025:2017



ISO 9001:2015

USER MANUAL

Item No	Range		Resolution	Accuracy	Probe		Measuring Force	Protection	Display	Data output
					Length	Ball				
120129018	-0.8- +0.8	-0.03" - +0.03"	0,0001	± 5	30	Ruby	0,1-0,18	IP54	Color 1.5"	WIRELESS+USB
120129038	-1.6 - +1.6	-0.06" - +0.06"		± 10	16	Steel	0,15-0,25	IP54	Touch-screen	



TECHNICAL DATA

Parameters	
LED display	color 1,54 inch
Resolution	240x240
Indication system	MICS 3.0
Power supply	Rechargeable Li-Pol battery
Battery capacity	350 mAh
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch (Multifunctional), Reset
Wireless data transfer	Long range

CHARGING

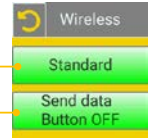
BUILT-IN BATTERY - rechargeable Li-Pol battery

For charging connect USB cable
Charging process indicating
on Battery status
(switch on device)



Activate WIRELESS data transfer in WIRELESS menu

Switch on Wireless data transmission
 Activating multifunctional button to save value to memory or send data by touchscreen or button push



Connect instrument with MICS indication system to Tablet or PC

Send data to Tablet or PC:

- by Touchscreen
- by Multifunctional button push (activated in Wireless menu)
- by Timer (activated in Timer menu)
- from Internal Memory

MEMORY

For save measuring data to internal caliper's memory touch data area on screen or short button push. You can view saved data through menu or send Wireless connection to Windows PC, Android or iOS devices.

Basic STATISTIC functions:

- MAX - maximum saved value
- MIN - minimum saved value
- AVG - average value
- D - variance VAR(x)

Statistic	Value
MAX:	+26.999
MIN:	8.8673
AVG:	+5.3213
D:	+26.863

Saved values

Each value can be Deleted or Send to application

Value
+7.3563
-0.1109
+1.2293
+26.9993
-8.8673

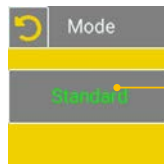
Button ALL select all values

All values can be Deleted or Send to application



MEMORY settings

Memory sub-menu



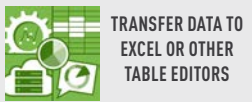
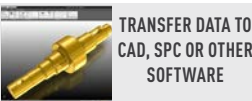
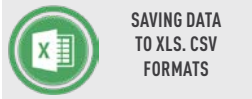
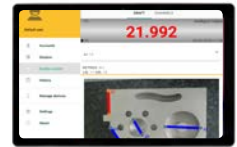
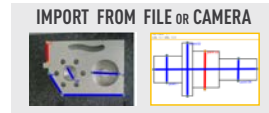
Selecting Standard mode or No saving data to internal memory



WIRELESS CONNECTION



USB-DONGLE



DATA TRANSFER DISTANCE FOR INTELLIGENT INSTRUMENTS

- All MICROTECH Intelligent instruments has internal memory. You can collect data to memory and when it will be necessary transfer all data to the peripheral device with no data losing.
- It's possible transfer data, like in Wireless instruments up to 15 m or up 50 m with external antenna
- USB port can be used to transfer data directly to Windows PC





USE TOUCHSCREEN TO OPERATE MENU

MENU button	MENU		Battery level
Colour can be changed according function	-0.0000		Actual value
Zero setting	0		Memory

MEMORY WITH STATISTIC

		ALL		Statistic
+7.3563			MAX:	+26.999
-0.1109			MIN:	8.8673
+1.2293			AVG:	+5.3213
+26.9993			D:	+26.863
-8.8673				

MENU CONFIGURATION



MAIN MENU



LIMITS
color Go/NoGo

Max/Min

Enable

MAX

MAX/MIN
indicating max or min value

FORMULA MODE
 Ax^2+Bx+C

Formula

Ax^2+Bx+C

Go/NoGo

Timer

+000 sec.

RESET



ERROR COMPENSATION
mathematical correction

0.8970

0.8920

OK

RESET

Temp.comp.

Sleep, Hold, Solid alway, Mo

+00.00

RESET

TEMPERATURE COMPENSATION
manual correction

Resolution

X.0000

Millimeters

RESOLUTION
selected up to 0.0001mm

Extra

Axis Mode

Normal

CONNECT



WIRELESS
modes of data transmission

Wireless

Standard

Send data

Button OFF

Mode OFF

UART OFF

Keypad ON

CONNECT

USB
USB connection configuration

Device

PIN

RESET

DEVICE SETTING
pin, reset

Display

Angle 180

Sleep **OFF**

RESET



MEMORY SETTING

Mode

Standard

Link to software

SOFTWARE
link to download app

Calibration

DAY MONTH YEAR

01 01 2020

CHANGE

CALIBRATION DATE

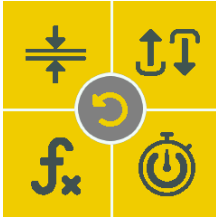
MICROTECH

www.microtech.us

COMP CALIPER 1

FW: 3.0.5

MAC: 12345



LIMITS GO/NOGO

MENU SETTING	Colour indication limits	MAIN SCREEN INDICATION
	<p>MAX - NoGo more MAX value MIN - NoGo less MIN value RANGE - Go between MIN & MAX NONE - disactivating mode</p>	
		<p>NoGo Go</p>

MAX/MIN

MENU SETTING	Indication and saving MAX or MIN values	MAIN SCREEN INDICATION
	<p>ENABLE - activating mode MAX - indicating MAX measured value MIN - indicating MIN measured value</p>	
		<p>MIN MAX</p>

FORMULA

MENU SETTING	FORMULA Ax^2+Bx+C	EXAMPLE OF FORMULA USING
	<p>Long push digit to select value</p>	Standard measuring A=0, B=1, C=0
		PRESET 50mm A=0, B=1, C=50
	Reset to zero arguments	Value magnification x3 A=0, B=3, C=0
		Square value A=1, B=0, C=0

TIMER

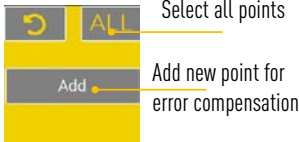
MENU SETTING	Saving data to memory or sending Wireless by Timer
	<p>Select timer period</p>
	Reset to disactivate mode



MATHEMATICAL ERROR COMPENSATION

MENU SETTING

Mathematical correction points with big error to normal values



Select all points

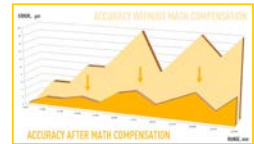
Add new point for error compensation



actual values

correct values by up&down button

confirm point correction



use gauge blocks or measuring machine for points correction

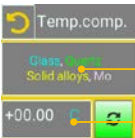
TEMPERATURE COMPENSATION

MENU SETTING

Re-calculation detail size to calibration conditions (20°C)

7 types of material:

- glass, quartz, solid alloys
- granite, graphite
- Fe, Ni, Fe alloys
- stainless steel
- cooper, Cu alloys
- aluminium, al alloys
- acrylic sheet



7 types of material for selection

Manual Temperature setting

RESOLUTION

MENU SETTING



Resolution selecting

mm/inch conversion

MAIN SCREEN INDICATION

+8.0608

Selecting resolution of value on main screen and memory

EXTRA (Axis mode)

MENU SETTING



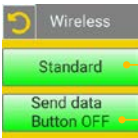
Selecting normal or inverted axis mode (+/- value indication)

Reading base reconnection for some types of calipers



WIRELESS CONNECTION

MENU SETTING Activating or deactivating wireless data transfer



Switch on Wireless or USB data transmission

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



USB CONNECTION

MENU SETTING



Connect instrument with USB cable to PC or iother device
Switch ON USB data transmission in Wireless menu
Select in this menu data transfer format
Data will be send to PC or other evic in keyboard mode
Don't switch off USB cable during data transfer

PIN & RESET

MENU SETTING

Activating PIN to device setting

RESET to factory settings



DISPLAY SETTING

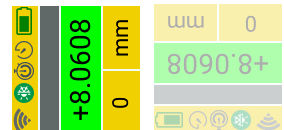
MENU SETTING

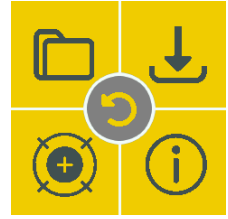
DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE



Display rotation 0°, 90°, 180°, 270°

- 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)





MEMORY SETTINGS

MENU SETTING Activating or disactivating saving values to memory



Standard - saving values to memory
OFF - disable saving to memory

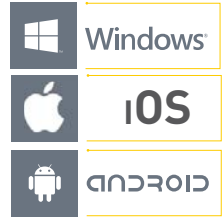
ALL
+7.3563
-0.1109
+1.2293
+26.9993
-8.8673

LINK TO SOFTWARE

MENU SETTING



QR Link to MICROTECH web site page with MDS Software download
 - Android, iOS, Windows versions
 - Free and Pro versions
 - Manuals



CALIBRATION DATE

MENU SETTING Calibration date info



Push for change date info

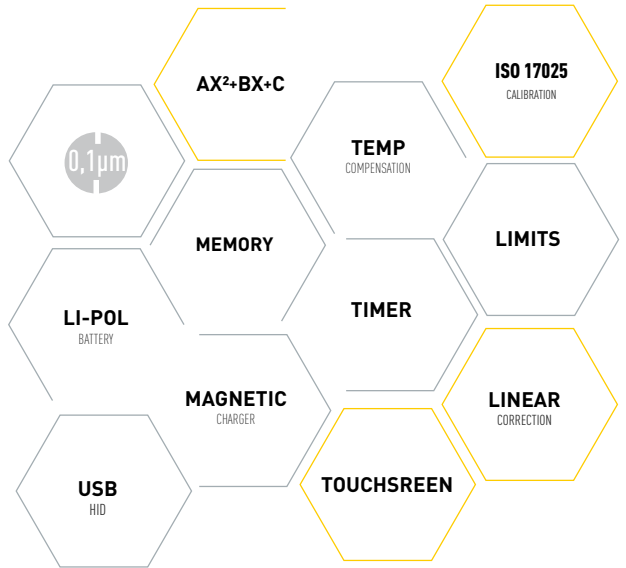
DAY	01
MONTH	01
YEAR	2021

DEVICE INFO

MENU SETTING



Information about device
 - device name
 - firmware version
 - MAC adress for easy connection



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Change without prior notice