

MICROTECH 120129018 Computerized Test Indicator User Manual

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MICROTECH 120129018 Computerized Test Indicator



Product Information

The Microtech Sub-Micron Computerized Test Indicator is a precision measuring tool that is compliant with ISO17025:2017 and ISO 9001:2015 standards. It features a color 1.5-inch touch-screen display with a resolution of 240×240 pixels. The indicator has a measuring range of -0.8 to +0.8 mm (or -0.03 to +0.03 inch) with a resolution of 0.0001 mm (or 0.00001 inch). The accuracy of the indicator is within the range of -0.8 to +0.8 mm (or -0.03 to +0.03 inch) and -1.6 to +1.6 mm (or -0.06 to +0.06 inch) respectively.

The indicator is equipped with a probe length of 30 mm (ruby ball) and 16 mm (steel ball) with measuring forces of 0.1-0.18 N and 0.15-0.25 N respectively. It has an IP54 protection rating, making it resistant to dust and water splashes.

The Microtech Sub-Micron Computerized Test Indicator supportsdata output via wireless and USB connections. It comes with free software compatible with Windows, Android, and iOS devices for data transfer and analysis. The indicator also features a multifunctional button for easy operation.

Product Usage Instructions

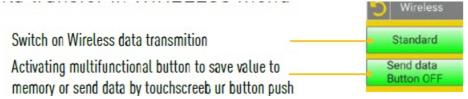
Charging

- 1. Connect the Microtech indicator to a power source using the provided micro-USB cable.
- 2. The battery status will be indicated on the device during the charging process.



WIRELESS DATA TRANSFER

- 1. Activate the wireless data transfer function in the wireless menu.
 - Switch on the wireless data transmission.
 - To save a value to memory or send data, activate the multifunctional button or use the touchscreen.

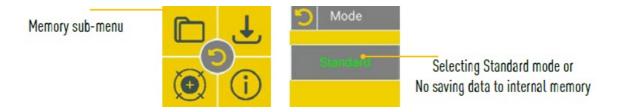


- 2. Connect instrument with MICS indication system to Tablet or PC Send data tp Tablet or PC:
 - · By touchscreen
 - By multifunctional button push (activated in the wireless menu)
 - By timer (activated in the timer menu)
 - · From internal memory

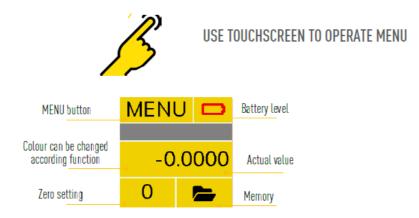
MEMORY

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





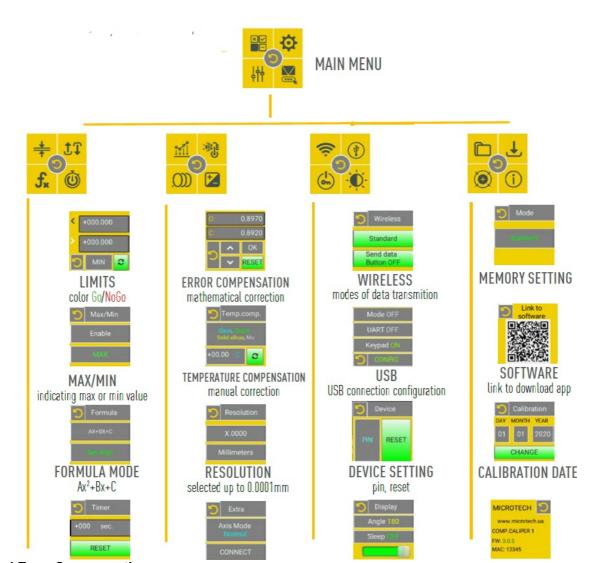
MENU NAVIGATION



MEMORY WITH STATISTIC



MENU CONFIGURATION



Limits and Error Compensation

The Microtech indicator supports limits and error compensation.

The color indication limits can be set for maximum and minimum values. The indicator offers mathematical correction for error compensation. There are modes for data transmission, USB connection configuration, software download, formula mode, resolution selection, device setting, calibration date, and MICS system functions.

SPECIFICATION

	Range		Resolut ion	Accur acy	Probe		Measuri			
Item N					Len ght	Ball	ng Force	Protecti on	Display	Data outpu t
	mm	inch	mm	μm	mm		N			
120129 018	-0.8- + 0.8	-0.03" - + 0.03"	0,0001	±5	30	Rub y	0,1-0,18	IP54	Color 1. 5" Touc h-scree n	WIRELESS +USB
120129 038	-1.6 – + 1.6	-0.06" — + 0.06"		±10	16	Stee	0,15-0,2 5	IP54		

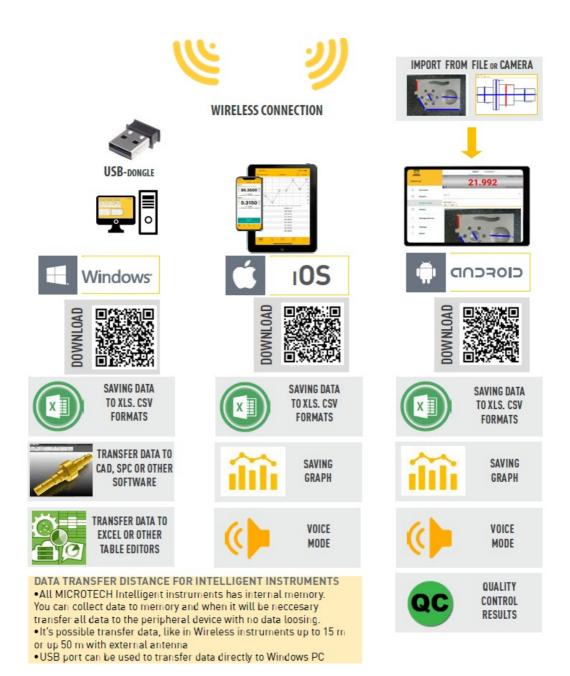


TECHNICAL DATA

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

CONNECTION

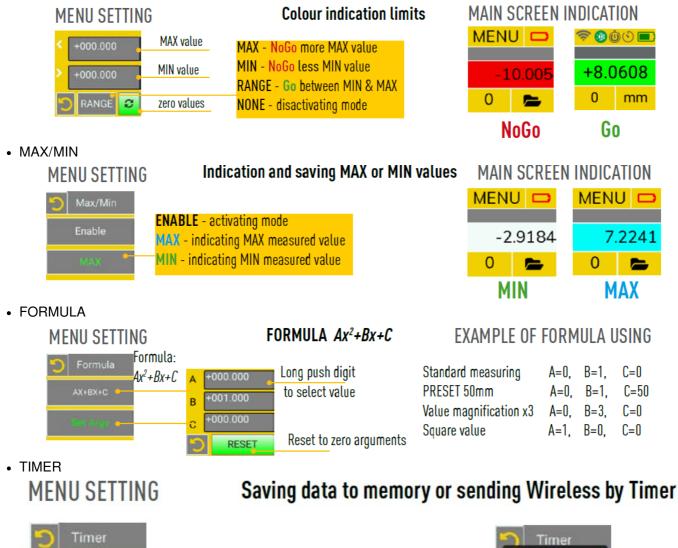


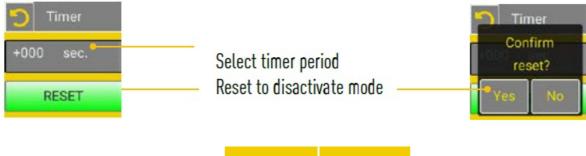


MICS SYSTEM FUNCTIONS



• LIMITS GO/NOGO



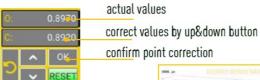




MATHEMATICAL ERROR COMPENSATION

MENU SETTING Mathematical correction points with big error to normal values



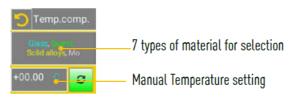


ACCURACY AFTER MATH COMPRISATION

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
- alluminium, al alloys
- acrylic sheet

RESOLUTION

MENU SETTING



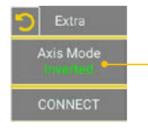
• EXTRA (Axis mode)

MAIN SCREEN INDICATION

+8.0608

Selecting resolution of value on main screen and memory

MENU SETTING



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

Reading base reconnection for some types of calipers



• WIRELESS CONNECTION

MENU SETTING Activating or disactivating wireless data transfer Switch on Wireless or USB data transmition Standard Send data Button OFF Activating multifunctional button to save value to memory or send data by touchscreeb ur button push

USB CONNECTION

MENU SETTING



Connect instrument with USB cable to PC or iother device Switch ON USB data transmition in Wireless menu Select in this menu data transfer format Data will be send to PC or other evice 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)



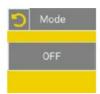


MEMORY SETTINGS

MENU SETTING

Activating or disactivating saving values to memory





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



• 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



DEVICE INFO

MENU SETTING



Information about device

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



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Documents / Resources



MICROTECH 120129018 Computerized Test Indicator [pdf] User Manual 120129018 Computerized Test Indicator, 120129018, Computerized Test Indicator, Indicator, Indicator

References

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