

# SUB-MICRON COMPUTERIZED DEPTH MICROMETER USER MANUAL



Calibration ISO 17025:2017



ISO 9001:2015

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#### SPECIFICATION

Item No	Range		Resolution		Accuracy	Base	Protection class	Indication	Data output	Calibration
	mm	inch	mm	inch	μm	mm			Wireless	ISO 17025
1109000258	0-150	0-6"	0,0001 0.0	0.00001"	±4	100	IP-65	computerized MICS system with 1,54" touchscreen	+	+
1109000508	0-300	0-12"		0.00001"	±6	100	IP-65		+	+

#### TECHNICAL DATA

Parameters	
LED display	color 1,54 inch
Resolution	240x240
Indication system	MICS 3.0
Power supply	Rechargeable Li-Pol battery
Battery capacity	450mAh
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch (Multifuntional), Reset
Wireless data transfer	Long range

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

Turn on micrometer by pressing SWITCH ON button.

Check the setting display to zero. Contact with each other (or with setting gauge) measuring surfaces of the anvil and the spindle, using the ratchet and take a measurement.

Rotation the micrometer screw in the direction of convergence measuring surfaces using the ratchet.

For zero setting, press the ZERO button on Touchscreen.

#### MAIN INFO



PRECISION MEASUREMENTS MICROTECH computerized micrometer with 0.1 resolution can be used for high precisor measurements in manufacturing, automotive medical industry and for calibration



COLOR GO/NOGO INDICATION Easy and quick limits control. It's possible setup max and min value throw menu. Color indication reduce possibility of error during control



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INTERNAL MEMORY

Computerized micrometer has memory manger with possibility saving data to folders. Separate Data's or Folders can be transfer Wireless to MICROTECH Software (Windows, Android,iOS)



FORMULA MODE In Formula mode we use Ax<sup>2</sup>+Bx+C Main using of this function is: - Preset function - Magnification of measured value For customers request Formula can be updated



ERROR COMPENSATION It's possible to make mathematical error compensation. Just re-calibrate micrometer with gauge block set and save results. Micrometer will indicate measuring results include re-calibration.



TEMPERATURE COMPENSATION Temperature compensation function gives possibility recalculate details sizes with high or low temperatures to normal (20C conditions). Available recalculation for 7 materials

#### CHARGING





#### WIRELESS DATA TRANSFER

#### Activate WIRELESS data transfer in WIRELESS menu

Switch on Wireless data transmition -Activating multifunctional button to save value to \_\_\_\_\_ memory or send data by touchscreeb ur button push

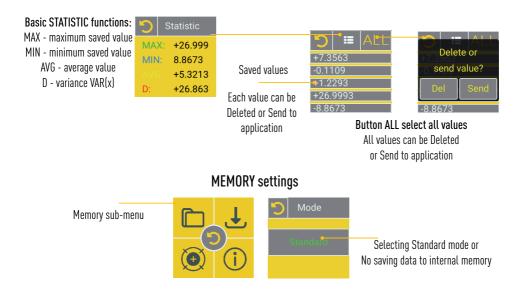


Connect instrument with MICS indication system to Tablet or PC Send data tp Tablet or PC:

- by Touchscreen
- by Multifactinal button psuh (activted in Wireless menu)
- by Timer (activated in Timer menu)
- from Internal Memory

## MEMORY

For save measuring data to internal 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.





QUALITY

CONTROL

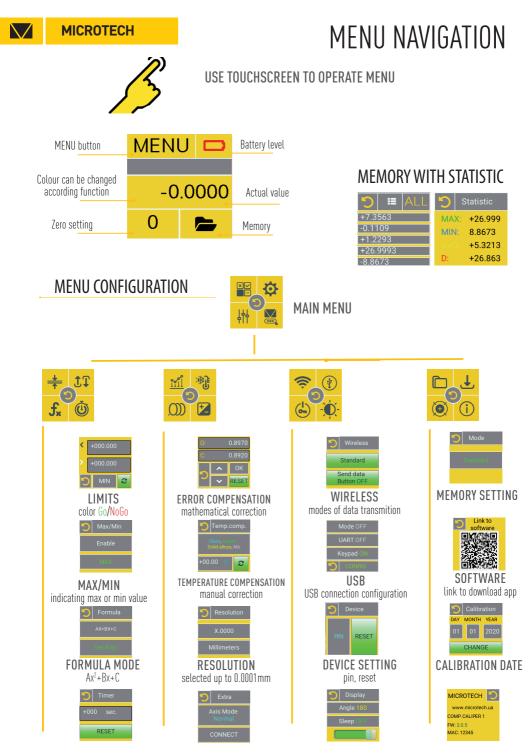
RESULTS

#### CONNECTION





DATA TRANSFER DISTANCE FOR INTELLIGENT INSTRUMENTS •All MICROTECH Intelligent instruments has internal memory. You can collect data to memory and when it will be neccesary transfer all data to the peripheral device with no data loosing. •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



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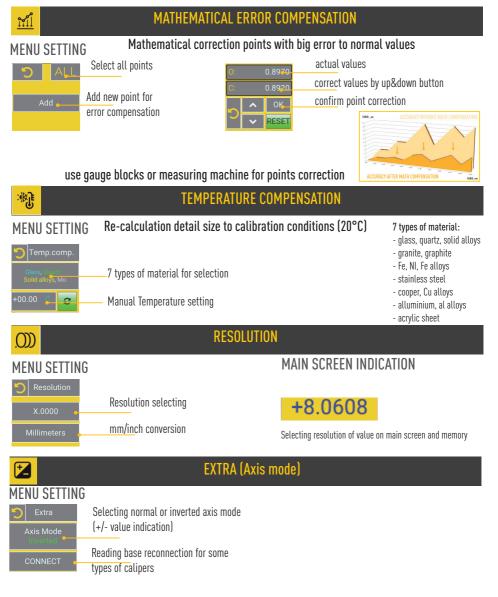


<u>+</u>	LIMITS GO/NOGO		
MENU SETTING +000.000 MAX value +000.000 MIN value RANGE C zero values	Colour indication limits MAX - NoGo more MAX value MIN - NoGo less MIN value RANGE - Go between MIN & MAX NONE - disactivating mode	MAIN SCREE MENU - -10.009 0 - NoGo	
1T	MAX/MIN		
Enable MAX - in	Indication and saving MAX or MIN va - activating mode dicating MAX measured value dicating MIN measured value	Alues MAIN SCRE MENU - 2.9184 0 - MIN	
f.	FORMULA		
MENU SETTING	FORMULA <i>Ax<sup>2</sup>+Bx+C</i>	EXAMPLE OF F	ORMULA USING
Formula Formula Ax+Bx+C Ax+Bx+C C	to select value	Standard measuring PRESET 50mm Value magnification x3 Square value	A=0, B=1, C=0 A=0, B=1, C=50 A=0, B=3, C=0 A=1, B=0, C=0
<u></u>	TIMER		
MENU SETTING	Saving data to memory or sending	Wireless by Timer	
Timer +000 sec.	Select timer period Reset to disactivate mode	Timer Confirm reset? es No	

Tes NU





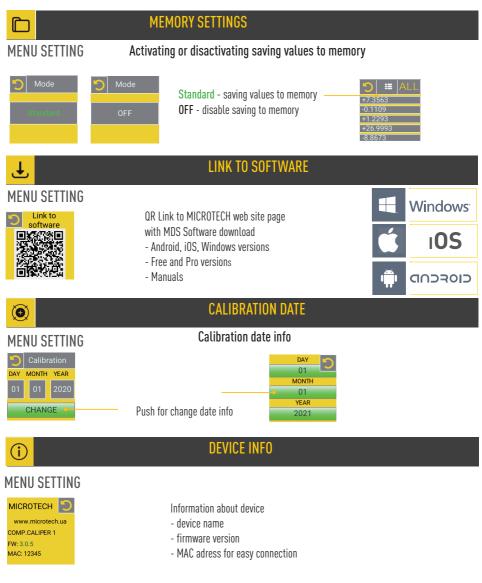




	WIRELESS CONNECTION				
MENU SETTING	Activating or disactivating wireless dat	ta transfer			
Wireless Standard Send data Button OFF	Switch on Wireless data transmition I data Activating multifunctional button to save value to				
(¥)	USB CONNECTION				
MODE OFF UART OFF Keypad ON	USB connection mode under constructi	ion			
G	PIN & RESET				
MENU SETTING	Activating PIN to device setting	<b>RESET</b> to factory settings			
Device PIN RESET	1       2       3       4         5       6       7       8         9       0 <b>&lt; ✓</b>	Confirm reset? Yes No			
-O-	DISPLAY SETTING				
MENU SETTING	DISPLAY ROTATION, BRIGHTNESS, SLEEPIN	IG MODE			
Angle 180	ay 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) htness level	0     0       0     0       0     0       0     0       0     0			











#### COMPUTERIZED MICS SYSTEM FUNCTIONS 🔊 🗉 All MENU 🗖 🕤 Statistic Q +7.3563 MAX: +26.999 -0.1109 (๖ -0.0000 MIN: 8.8673 +1.2293 朴 $\bigtriangledown$ +5.3213 +26.9993 0 +26.863 -8.8673 TOUCHSCREEN ERGONOMIC MENU RESOLUTION INTERNAL MEMORY STATISTIC INFO OPERATION UP TO 0,1 MICRON MENU 🗖 MENU 🗖 -1.7210 7.2241 🔺 ОК 0 📂 0 📂 0 🖌 🗸 RESET COLOUR GO/NOGO FORMULA MODE TEMPERATURE COMPENSATION MAX/MIN READING MATHEMATICAL ERROR (PRESET AND OTHER) FOR 7 TYPES OF MATERIALS COMPENSATION Calibration Link to 5 YEAR MONTH 01 2020 Sleep 15s 1.533 RESET CHANGE 前魏德 DATA TRANSFER CALIBRATION FREE SOFTWARE FOR DATA TRANSFER BY TOUCH-DISPLAY ROTATION BY TIMER DATACONTROL WINDOWS, ANDROID, IOS SCREEN OR BUTTON PUSH AND BRIGHTNESS



#### MICROTECH

innovative measuring instruments

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Change without prior notice