

SUB-MICRON COMPUTERIZED MICROMETER HEAD

USER MANUAL







SPECIFICATION

Item No	Range		Resolution		Accuracy	Protection class	Indication	Data output	Calibration
	mm	inch	mm	inch	μm			Wireless	ISO 17025
110181027	0-25	0-1"	0,0001	0.00001"	±2	IP-65	computerized MICS system with 1,54" touchscreen	max 50m	+

TECHNICAL DATA

Parameters			
LED display	color 1,54 inch		
Resolution	240x240		
Indication system	MICS 3.0		
Power supply	Rechargeable Li-Pol battery		
Battery capacity	450-800 mAh (depends of device)		
Charging port	micro-USB		
Case material	Aluminium		
Buttons	Switch (Multifuntional), Reset		
Wireless data transfer	up to 50m on open area		

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



FORMULA MODE

In Formula mode we use Ax²+Bx+C Main using of this function is:

- Preset function
- Magnification of measured value For customers request Formula can be updated



COLOR GO/NOGO INDICATION

Easy and quick limits control. It's possible setup max and min value throw menu.

It's possible setup max and min value throw ment Color indication reduce possibility of error during control



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.



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)



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



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



BUILT-IN BATTERY - rechargeable Li-Pol battery



WIRELESS DATA TRANSFER



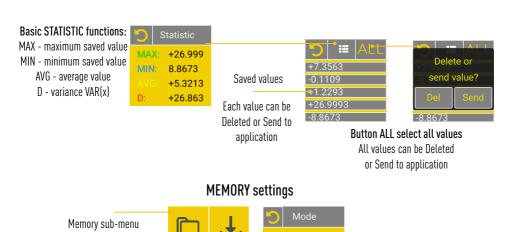
Connect instrument with MICS indication system to Tablet or PC Send data tp Tablet or PC:

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

MEMORY

Selecting Standard mode or No saving data to internal 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.















WIRELESS CONNECTION







USB-DONGLE



























TO XLS. CSV **FORMATS**



SAVING **GRAPH**

TO XLS. CSV

FORMATS



SAVING **GRAPH**



TRANSFER DATA TO **EXCEL OR OTHER TABLE EDITORS**



VOICE MODE



VOICE MODE



•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



QUALITY CONTROL RESULTS











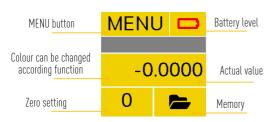




MENU NAVIGATION



USE TOUCHSCREEN TO OPERATE MENU



MFMORY WITH STATISTIC



MENU CONFIGURATION



MAIN MFNIJ













LIMITS color Go/NoGo





FORMIII A MODE Ax2+Bx+C





✓ RESET **ERROR COMPENSATION**

∧ OK



TEMPERATURE COMPENSATION manual correction



RESOLUTION selected up to 0.0001mm





WIRELESS modes of data transmition



USB USB connection configuration



DEVICE SETTING pin, reset







SOFTWARE link to download app

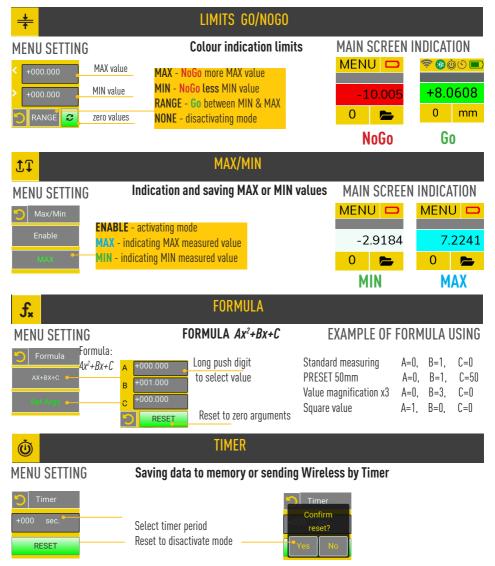


CALIBRATION DATE















MATHEMATICAL ERROR COMPENSATION

MENU SETTING

Mathematical correction points with big error to normal values

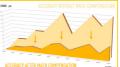




actual values

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
- alluminium, al alloys
- acrylic sheet

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RESOLUTION

MENU SETTING

MAIN SCREEN INDICATION



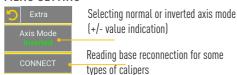


Selecting resolution of value on main screen and memory



EXTRA (Axis mode)

MENU SETTING









WIRELESS CONNECTION

MENU SETTING

Activating or disactivating wireless data transfer



Switch on Wireless data transmition



USB CONNECTION

MENU SETTING



USB connection mode under construction





PIN & RESET

MENU SETTING



Activating PIN to device setting



RESET to factory settings

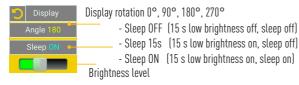


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DISPLAY SETTING

MENU SETTING

DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE











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

Push for change date info

- Manuals



Windows



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CALIBRATION DATE

Calibration date info

MENU SETTING

Calibration DAY MONTH YEAR



(i)

DEVICE INFO

MENU SETTING

CHANGE



Information about device

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

MICROTECH

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