

SUB-MICRON INTELLIGENT COMPUTERIZED SNAP GAUGE

USER MANUAL





Item No	Range		Resolution		Accuracy	Protection class	Indication	Data output	Calibration
	mm	inch	mm	inch	µm			Wireless	ISO 17025
1150500507	0-50	0-2"	0,0001	0.00001"	±3	IP-65	computerized MICS system with 1,54" touchscreen	max 50m	+
1150501007	50-100	2-4"			±4	IP-65		max 50m	+
1150501507	100-150	4-6"			±4	IP-65		max 50m	+
1150502007	150-200	6-8"			±4	IP-65		max 50m	+
1150502507	200-250	8-10"			±6	IP-65		max 50m	+
1150503007	250-300	10-12"			±7	IP-65		max 50m	+
1150503507	300-350	12-14"			±8	IP-65		max 50m	+
1150504007	350-400	14-16"			±9	IP-65		max 50m	+
1150504507	400-450	16-18"			±10	IP-65		max 50m	+
1150505007	450-500	18-20"			±10	IP-65		max 50m	+





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 (Multifunctional), Reset
Wireless data transfer	up to 50m on open area

CHARGING



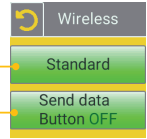
BUILT-IN BATTERY - rechargeable Li-Pol battery

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:

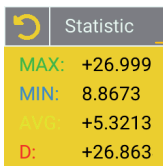
- by Touchscreen
- by Multifunctional button push (activated in Wireless menu)
- by Timer (activated in Timer menu)
- from Internal Memory

MEMORY

For save measuring data to internal 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)



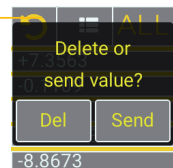
Saved values

Each value can be Deleted or Send to application



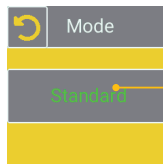
Button ALL select all values

All values can be Deleted or Send to application



MEMORY settings

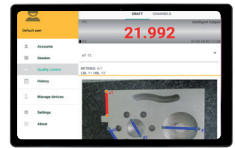
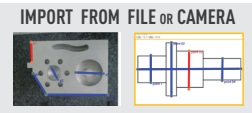
Memory sub-menu



Selecting Standard mode or No saving data to internal memory



WIRELESS CONNECTION



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 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





MENU NAVIGATION



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				+5.3213
+26.9993			D:	+26.863
-8.8673				

MENU CONFIGURATION



MAIN MENU

LIMITS
color Go/NoGo

Max/Min

Enable

Go/NoGo

MAX/MIN
indicating max or min value

FORMULA MODE
 Ax^2+Bx+C

Formula

Ax^2+Bx+C

Go/NoGo

FORMULA MODE
 Ax^2+Bx+C

Timer

+000 sec.

RESET

ERROR COMPENSATION
mathematical correction

0.8970

0.8920

OK

RESET

Temp.comp.

Glass, Metal
Solid alloys, Mo

+00.00

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

ENABLE

USB
USB connection configuration

Device

PIN

RESET

DEVICE SETTING
pin, reset

Display

Angle 180

Sleep OFF

MEMORY SETTING

Mode

Standard

Link to software

SOFTWARE
link to download app

Calibration

DAY MONTH YEAR

01 01 2020

CHANGE

CALIBRATION DATE

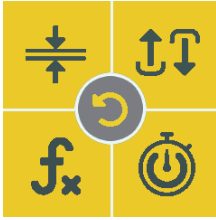
MICROTECH

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>A +000.000 Long push digit to select value B +001.000 C +000.000 RESET Reset to zero arguments</p>	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

TIMER

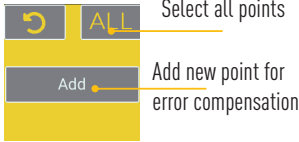
MENU SETTING	Saving data to memory or sending Wireless by Timer
	<p>Select timer period</p>



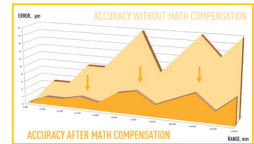
MATHEMATICAL ERROR COMPENSATION

MENU SETTING

Mathematical correction points with big error to normal values



actual values
correct values by up&down button
confirm point correction



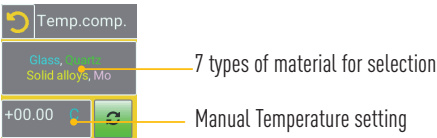
use gauge blocks or measuring machine for points correction

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
 - aluminium, al alloys
 - acrylic sheet



RESOLUTION

MENU SETTING

MAIN SCREEN INDICATION

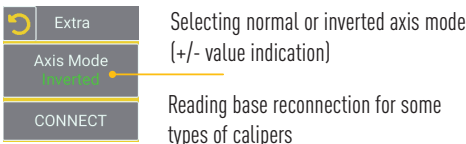


+8.0608

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


Wireless

Standard

Send data Button OFF

Switch on Wireless data transmission

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



USB CONNECTION

MENU SETTING USB connection mode under construction

Mode OFF

UART OFF

Keypad ON

CONFIG

Configure

Trail symbol CR+LF

Devicer Dot

PIN & RESET

MENU SETTING Activating PIN to device setting RESET to factory settings

Device

PIN RESET

1	2	3	4
5	6	7	8
9	0	<	✓

Device

Confirm reset?

Yes No

DISPLAY SETTING

MENU SETTING DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE

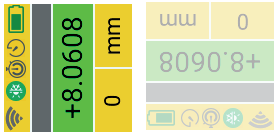
Display

Angle 180

Sleep ON

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)

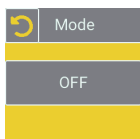
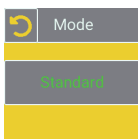




MEMORY SETTINGS

MENU SETTING

Activating or disactivating saving values to memory



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

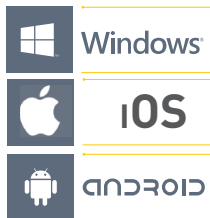
	ALL
+7.3563	
-0.1109	
+1.2293	
+26.9993	
-8.8673	

LINK TO SOFTWARE

MENU SETTING



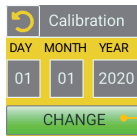
QR Link to MICROTECH web site page with MDS Software download
- Android, iOS, Windows versions
- Free and Pro versions
- Manuals



CALIBRATION DATE

MENU SETTING

Calibration date info



Push for change date info

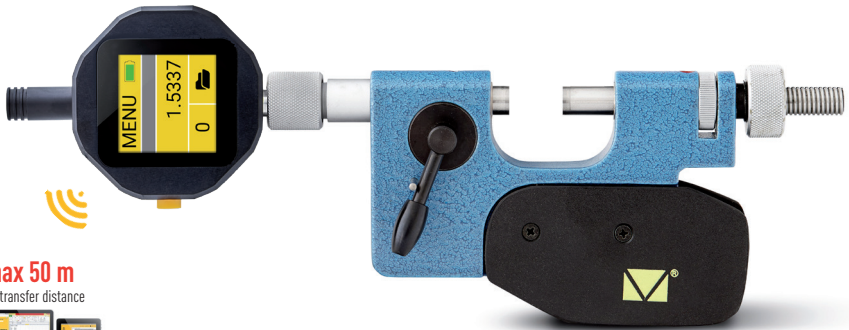
DAY	
01	
MONTH	
01	
YEAR	
2021	

DEVICE INFO

MENU SETTING



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



max 50 m
data transfer distance



Free Software for Windows, Android, iOS

0.1µm



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