Folders
- 001
- 002
- + New

O: 01.0000
C: 00.0000

⌃ OK
⌄ RESET

MENU

21.529

0

Link to software

Calibration Date

DAY	MONTH	YEAR
01	01	2020

CHANGE

Timer

+000 sec.

RESET

Wireless Trans

Normal

1 min

Temp. comp.

None Mode

+25.00 C

0.001mm

SUB-MICRON COMPUTERIZED GAUGE FOR INTERNAL MEASURING
USER MANUAL

SPECIFICATION

Item No	Range	Resolution	Accuracy	Functions	Data output	
	mm	mm	mm		USB	Wireless
134102505	5-25	0,0002	±0,020		+	max 50 m
134103005	10-30	0,0002	±0,020	Error comp.Temp.comp	+	max 50 m
134104005	20-40	0,0002	±0,020	Preset. Memory Max/	+	max 50 m
134105005	30-50	0,0002	±0,020	Min Limits	+	max 50 m
134106005	40-60	0,0002	±0,020		+	max 50 m

MICS indication system
hi-res colour Touchscreen

Free Software for Windows, Android, iOS

max 50 m
data transfer distance

Multifunctional button

MENU

1.5337

0

0.2µm

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

CHARGING

BUILT-IN BATTERY - rechargeable Li-Pol battery

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

WIRELESS DATA TRANSFER

Activate WIRELESS data transfer in WIRELESS menu

Wireless
Standard
Send data Button OFF

Switch on Wireless data transmition

Activating multifunctional button to save value to memory or send data by touchscreeb ur button push
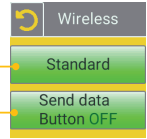
Connect instrument with MICS indication system to Tablet or PC

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 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.

Basic STATISTIC functions:
MAX - maximum saved value
MIN - minimum saved value
AVG - average value
D - variance VAR(x)

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

Saved values

Each value can be Deleted or Send to application

≡	ALL
+7.3563	
-0.1109	
+1.2293	
+26.9993	
-8.8673	

≡	ALL
Delete or send value?	
Del	Send
-8.8673	

Button ALL select all values
All values can be Deleted or Send to application
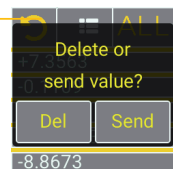
MEMORY settings

Memory sub-menu

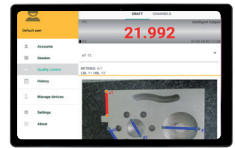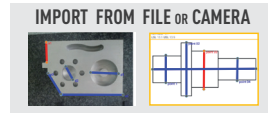| Mode |
|---|
| |
| Standard |

Selecting Standard mode or No saving data to internal memory

CONNECTION

UP TO **50M**

WIRELESS CONNECTION

IMPORT FROM FILE OR CAMERA

21.992

USB-DONGLE

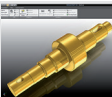| Windows	iOS	ANDROID
DOWNLOAD	DOWNLOAD	DOWNLOAD

SAVING DATA TO XLS. CSV FORMATS	**SAVING DATA TO XLS. CSV FORMATS**	**SAVING DATA TO XLS. CSV FORMATS**
TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE	**SAVING GRAPH**	**SAVING GRAPH**
TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS	**VOICE MODE**	**VOICE MODE**
		QUALITY CONTROL RESULTS

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

MICROTECH

MENU NAVIGATION

USE TOUCHSCREEN TO OPERATE MENU

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

AX+BX+C

Set Angx

FORMULA MODE
Ax^2+Bx+C

Timer

+000 sec.

RESET

ERROR COMPENSATION
mathematical correction

O: 0.8970
C: 0.8920
OK
RESET

Temp.comp.

Glass, Quarz
Solid alloys, Mo

+00.00 C

TEMPERATURE COMPENSATION
manual correction

Resolution

X.0000

Millimeters

RESOLUTION
selected up to 0.0001mm

Extra

Axis Mode
Normal

CONNECT

WIRELESS
modes of data transmition

Wireless

Standard

Send data
Button OFF

Mode OFF
UART OFF
Keypad ON
CONFIG

USB
USB connection configuration

Device

PIN   RESET

DEVICE SETTING
pin, reset

Display
Angle 180
Sleep OFF

MEMORY SETTING

Mode

Standard

SOFTWARE
link to download app

Link to software

Calibration
DAY MONTH YEAR
01   01   2020
CHANGE

CALIBRATION DATE

MICROTECH
www.microtech.ua
COMP.CALIPER 1
FW: 3.0.5
MAC: 12345

MICS SYSTEM FUNCTIONS
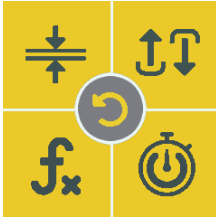
LIMITS GO/NOGO

MENU SETTING

Colour indication limits

MAIN SCREEN INDICATION

+000.000 — MAX value

+000.000 — MIN value

RANGE — zero values

MAX - NoGo more MAX value
MIN - NoGo less MIN value
RANGE - Go between MIN & MAX
NONE - disactivating mode

MENU
-10.005
0

NoGo

MENU
+8.0608
0   mm

Go

MAX/MIN

MENU SETTING

Indication and saving MAX or MIN values

MAIN SCREEN INDICATION

Max/Min
Enable
MAX

ENABLE - activating mode
MAX - indicating MAX measured value
MIN - indicating MIN measured value

MENU
-2.9184
0

MIN

MENU
7.2241
0

MAX

FORMULA

MENU SETTING

FORMULA Ax^2+Bx+C

EXAMPLE OF FORMULA USING

Formula
AX+BX+C
Set Argv

Formula:
Ax^2+Bx+C

A +000.000
B +001.000
C +000.000
RESET

Long push digit
to select value

Reset to zero arguments

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

Timer
+000 sec.
RESET

Select timer period
Reset to disactivate mode
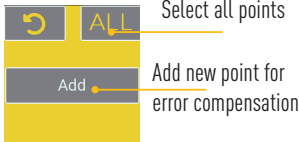
Timer
+000 sec.
Confirm
reset?
Yes   No

MICS SYSTEM FUNCTIONS

MATHEMATICAL ERROR COMPENSATION

MENU SETTING

Mathematical correction points with big error to normal values

ALL — Select all points

Add — Add new point for error compensation

O: 0.8970 — actual values

C: 0.8920 — correct values by up&down button

OK — confirm point correction

RESET

ACCURACY WITHOUT MATH COMPENSATION
ERROR, μm
ACCURACY AFTER MATH COMPENSATION
RANGE, mm
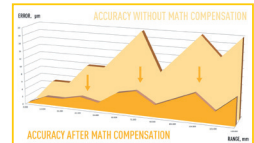
use gauge blocks or measuring machine for points correction

TEMPERATURE COMPENSATION

MENU SETTING

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

Temp.comp.

Glass, Quartz Solid alloys, Mo — 7 types of material for selection

+00.00 °C — Manual Temperature setting

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

Resolution

X.0000 — Resolution selecting

Millimeters — mm/inch conversion

MAIN SCREEN INDICATION

+8.0608

Selecting resolution of value on main screen and memory

EXTRA (Axis mode)

MENU SETTING

Extra
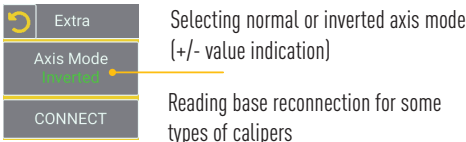
Axis Mode Inverted — Selecting normal or inverted axis mode (+/- value indication)

CONNECT — Reading base reconnection for some types of calipers

MICS SYSTEM FUNCTIONS

WIRELESS CONNECTION

MENU SETTING

Activating or disactivating wireless data transfer

Wireless
Standard — Switch on Wireless data transmition

Send data Button OFF — Activating multifunctional button to save value to memory or send data by touchscreeb ur button push

USB CONNECTION

MENU SETTING

USB connection mode under construction

Mode OFF
UART OFF
Keypad ON
CONFIG

Configure
Trail symbol CR+LF
Devider Dot

PIN & RESET

MENU SETTING

Activating PIN to device setting

Device

PIN   RESET

1 2 3 4
5 6 7 8
9 0 ‹ ✓

RESET to factory settings

Device
Confirm reset?
Yes   No

DISPLAY SETTING

MENU SETTING

DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE
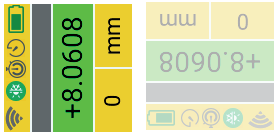
Display
Angle 180
Sleep ON

Display rotation 0°, 90°, 180°, 270°
- Sleep OFF (15 s low brightness off, sleep off)
- Sleep 15s (15 s low brightness on, sleep off)
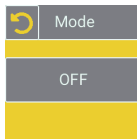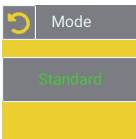- Sleep ON   (15 s low brightness on, sleep on)

+8.0608   mm   0

MICS SYSTEM FUNCTIONS

MEMORY SETTINGS

MENU SETTING

Activating or disactivating saving values to memory

Mode
Standard

Mode
OFF

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

ALL
+7.3563
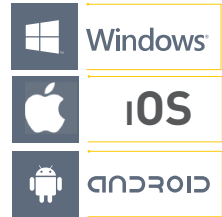-0.1109
+1.2293
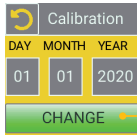+26.9993
-8.8673

LINK TO SOFTWARE

MENU SETTING

Link to software

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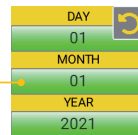- Android, iOS, Windows versions
- Free and Pro versions
- Manuals

Windows
iOS
ANDROID

CALIBRATION DATE

MENU SETTING

Calibration date info

Calibration
DAY   MONTH   YEAR
01   01   2020
CHANGE

DAY
01
MONTH
01
YEAR
2021

Push for change date info

DEVICE INFO

MENU SETTING

MICROTECH
www.microtech.ua
COMP.CALIPER 1
FW: 3.0.5
MAC: 12345
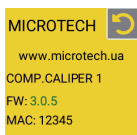
Information about device
- device name
- firmware version
- MAC adress for easy connection

0.001mm

MENU

21.529

0

Change without prior notice