



# SUB-MICRON COMPUTERIZED GAUGE FOR INTERNAL MEASURING USER MANUAL



Calibration ISO 17025:2017



ISO 9001:2015



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

Parameters	
LED display	color 1,5 inch
Power supply	Rechargeable Li-Pol battery
Lifetime	>80h (Medium brightness)
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch, Reset
Wireless data transfer	10m without external antenna 50m with external antenna (from set)

# MAIN INFO



MICROTECH

- SWITCH ON DEVICE** - button push (1 sec)
- SWITCH OFF DEVICE** - auto switch off (configuring throw DISPLAY SETTING menu)
  - button push (3 sec)



Clean the oil from the measuring rod and measuring anvil.

For recharging indicator (Li-Pol rechargeable battery) connect it with standard USB cable to charger device

Turn on instrument by pressing ON button (1 sec).

For zero setting, press the ZERO button on Touchscreen.

Save measuring data to internal indicator memory with touch data on screen. You can view saved data throw menu or send throw USB or Wireless connection to Windows PC, Android or iOS devices.

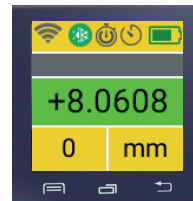
## CHARGING

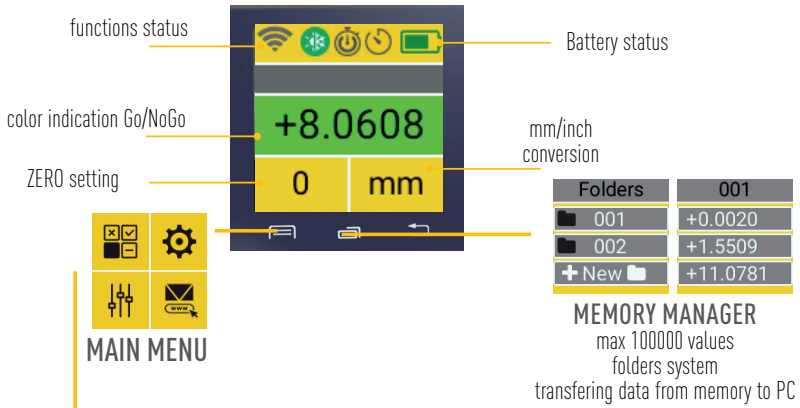
For charging connect USB cable



**BUILT-IN BATTERY** - rechargeable Li-Pol battery

Charging process indicating on Battery status (switch on device)





< +00.0001

> +00.0001

MIN

**LIMITS**  
color Go/NoGo

Max/Min

Enable

Max

**MAX/MIN**  
indicating max or min value

A +00.0000

B +00.0000

C +00.0000

RESET

**FORMULA MODE**  
 $Ax^2+Bx+C$

Timer

+000 sec.

RESET

0: 01.0000

OK

RESET

**ERROR COMPENSATION**  
mathematical correction

Temp. comp.

None Mode

+25.00 C

**TEMPERATURE COMPENSATION**  
manual correction 4 materials

Resolution

X.0000

**RESOLUTION**  
selected up to 0.0001mm

Extra

Axis Mode

Normal

Wireless Trans

Normal

1 min

**WIRELESS**  
modes of data transmission

Mode OFF

UART OFF

Keypad ON

Control

**USB**  
USB connection configuration

**Device**

Auto start ON

FN RESET

**DEVICE SETTING**  
autostart, reset, password

Angle

Sleep ON

Light High

Mode

Folder

+000

RESET

**MEMORY SETTING**  
folder configuration

Link to software

**SOFTWARE**  
link to download app

Calibration Date

DAY MONTH YEAR

01 01 2020

CHANGE

**CALIBRATION STATUS**  
calibration date control

app@microtech.ua  
F411RE  
FW: 1.1.1  
MAC: 00000  
ID: 00000000

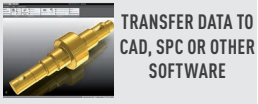
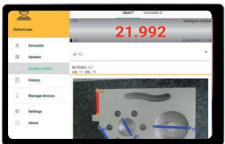
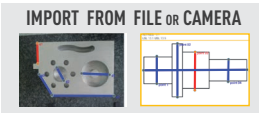
# CONNECTION



USB CONNECTION



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 losing.
- 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



## LIMITS GO/NOGO

### MENU SETTING

< +00.0001

> +00.0001

MIN

### MAIN SCREEN

+8.0608

0 mm

NoGo Go NoGo

MAX - NoGo over MAX value  
 MIN - NoGo over MIN value  
 RANGE - selecting GO range  
 NONE - No active mode

## MAX/MIN

### Max/Min

Enable

MAX

Status indication on main screen

+8.0608

0 mm

ENABLE/DISABLE mode indicating MAX dvalue indicating MIN value

## FORMULA

A +00.0000

B +00.0000

C +00.0000

RESET

### EXAMPLES:

- for value x2 - B=2

- set PRESET 100mm C=100

- square value A=1

Avialable Formulas:  
 - $Ax^2+Bx+C$   
 -Radius (for indicators)  
 -Sphere (for indicators)

## TIMER

### Timer

+000 sec.

RESET

Timer indication on main screen

+8.0608

0 mm

Saving or transfer data by Timer  
 Select timer period  
 For disactive - reset to zero

## MATH. ERROR COMPENSATION

O: 01.0000

C: 01.0010

OK

RESET

**Red value**  
- actual value on instrument

**Green value**  
- compensated value

Use up&down button to update actual value (green) to correct value.  
 For compensation correction - push OK.  
 After points correction computerized instrument will recalculate values according corrected points

## TEMPERATURE COMPENSATION

### Temp. comp.

Glass, Quartz  
Solid alloys, Mo

+25.00

+8.0608

0 mm

Re-calculation value to calibration conditions 20C  
 7 types of materilas for selection  
 Manual temperature setting

## RESOLUTION

### Resolution

X.0000

+8.0608

Selecting instrument resolution

## EXTRA (Axis mode)

### Extra

Axis Mode

Normal

+/- value indication

+8.0608

0 mm

Selecting normal or inverted axis mode



# FUNCTIONS



MICROTECH

### WIRELESS CONNECTION

Wireless Trans

Normal

1 min

WIRELESS status

+8.0608

0 mm



### USB CONNECTION

Mode OFF

UART OFF

Keypad ON

CONRG

Windows

### PIN

Device

Auto start ON

PIN RESET

### DISPLAY SETTING

Angle 0

Sleep off

Rotation 0, 90, 180, 270

Sleep mode

Brightness level

+8.0608

0 mm

8090'8+

### MEMORY MANAGER SETTINGS

Mode 001

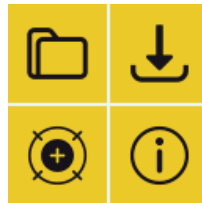
Folder +0.0020

+000 +1.5509

RESET +11.0781

- Standard / Folder mode

In Folder mode possible to set qty values in each folder.



### LINK TO SOFTWARE

Link to software

Free Software for Windows, Android, iOS

Link to page with MDS Software download

- for Android, iOS, Windows
- Free and Pro versions

### CALIBRATION DATE

Calibration Date

DAY MONTH YEAR

01 01 2020

CHANGE

Saving or transfer data by Timer

Select timer period

For disactive - reset to zero

### DEVICE INFO

app@microtech.ua

F411RE

FW: 1.1.1

MAC: 00000

ID: 00000000

Information about firmware version and MAC address for easy connection



**MICROTECH**

**MICROTECH**

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