Folders
■ 001
■ 002
+ New ■

O: 01.0000
C: 01.0010
∧   OK
∨   RESET

COMPUTERIZED CALIPER
+42.773
0   mm
FORCE
MADE IN UKRAINE
MICROTECH®
0 10 20 30 40 ... 120 130 140 150 160 170 180 190 200

Link to software

ORCE 8
FORCE 8N

Calibration Date
DAY MONTH YEAR
01   01   2020
CHANGE

Temp. comp.
None Mode
+25.00 C

Timer
+000 sec.
RESET

Wireless Trans
Normal
1 min

MICRON INTELLIGENT COMPUTERIZED CALIPER

USER MANUAL

Item No	Range	Resolution	Accuracy	Jaws	Measuring force	Protection	Functions	Data output	
	mm	mm	mm	mm	N			USB	Wireless
141097015	0-150	0,001	±0,005	40/16	8	IP-65	Error comp. Temp.comp Preset. Memory Max/Min Limits	+	max 50 m
141097020	0-200	0,001	±0,008	50/17	8	IP-65		+	max 50 m
141097030	0-300	0,001	±0,012	60/20	8	IP-65		+	max 50 m

Parameters	
LED display	1,5 inch
Power supply	Rechargeable Li-Pol battery
Lifetime	>80h (Medium brightness)
Charging port	micro-USB
Measuring force	8N
Wireless data transfer	15m/ 50m with external antenna (from set)

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

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

DO NOT LEAVE UNCHARGED CALIPER FOR A LONG TIME. THIS MAY RESULT TO INTERNAL BATTERY FAILURE!

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

For zero setting use Force control module- line inside lens must be came off with outside line. Press the **ZERO** button (2 sec) on Touchscreen for ZERO possition setting.

During a mesuring use Force control module to measure with optimal Force (8N for this type of caliper).

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 throw USB or Wireless connection to Windows PC, Android or iOS devices.

All functions of caliper you can see on p.5 of instruction or in demo video on *www.microtech.ua*

MAIN INFO

SWITCH ON DEVICE   - button push (1 sec)
SWITCH OFF DEVICE   - auto switch off (configurating throw DISPLAY SETTING menu)
                                      - button push (3 sec)
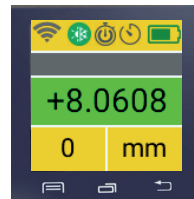**ZERO SETTING**   - 0 button in Touchscreen display (2 sec)

CHARGING

For charging connect USB cable

Charging process indicating
on Battery status
(switch on device)

BUILT-IN BATTERY - rechargeable Li-Pol battery

VIDEO INSTRUCTION

functions status

Battery status

color indication Go/NoGo

mm/inch conversion

ZERO setting

+8.0608

0 | mm

Folders	001
001	+0.0020
002	+1.5509
+ New	+11.0781

MAIN MENU

MEMORY MANAGER
folders system
transfering data from memory to PC

LIMITS
color Go/NoGo

+00.0001
+00.0001
MIN

ERROR COMPENSATION
mathematical correction

O: 01.0000
C: 01.0010
OK
RESET

WIRELESS
modes of data transmition

Wireless Trans
Normal
1 min

MEMORY SETTING
folder configuration

Mode
Folder
+000
RESET

MAX/MIN
indicating max or min value

Max/Min
Enable
MAX

TEMPERATURE COMPENSATION
manual correction 4 materials

Temp. comp.
None Mode
+25.00 C

USB
USB connection configuration

Mode OFF
UART OFF
Keypad ON
CONFIG

SOFTWARE
link to download app

Link to software

FORMULA MODE
Ax^2+Bx+C

A +00.0000
B +00.0000
C +00.0000
RESET

RESOLUTION
selected up to 0.0001mm

Resolution
X.0000

DEVICE SETTING
autostart, reset, password

Device
Auto start ON
PIN | RESET

CALIBRATION STATUS
calibration date control

Calibration Date
DAY MONTH YEAR
01 | 01 | 2020
CHANGE

TIMER MODE
saving or transfer data on timer

Timer
+000 sec.
RESET

AXIS MODE
normal or inverted

Extra
Axis Mode
Normal

SCREEN SETTING
screen rotation, brightness

Angle 0
Sleep off
Light High

DEVICE INFO
service info about device

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

CONNECTION

USB CONNECTION

UP TO 50M

WIRELESS CONNECTION

IMPORT FROM FILE OR CAMERA

USB-DONGLE

+1.4347 mm

+8.0608 mm

MICROTECH 0-25x0.0001mm

86.3600

5.3150

21.992
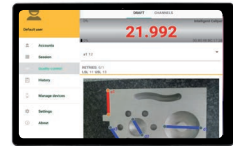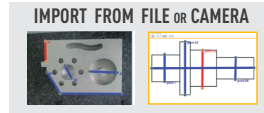
Windows

iOS

ANDROID

DOWNLOAD

DOWNLOAD

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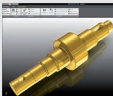
SAVING DATA TO XLS. CSV FORMATS	SAVING DATA TO XLS. CSV FORMATS	SAVING DATA TO XLS. CSV FORMATS
TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE	SAVING GRAPH	SAVING GRAPH
TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS	VOICE MODE	VOICE MODE
		QUALITY CONTROL RESULTS

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

FUNCTIONS

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 indicatiion 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: 01.0000
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 C

+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
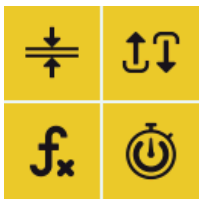resolution

EXTRA (Axis mode)

Extra
Axis Mode
Normal

+/- value indication

+8.0608
0   mm

Selecting normal or
inverted axis mode

FUNCTIONS

WIRELESS CONNECTION

Wireless Trans
Normal
1 min

WIRELESS status

+8.0608
0 mm

USB CONNECTION

Mode OFF
UART OFF
Keypad ON
CONFIG

Windows

PIN

Device
Auto start ON
PIN   RESET

DISPLAY SETTING

Angle 0
Sleep off

+8.0608 mm
0

Rotation 0, 90, 180, 270
Sleep mode
Brightness level

mm   0
+8.0608

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
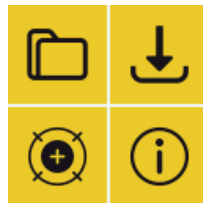in each folder.

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

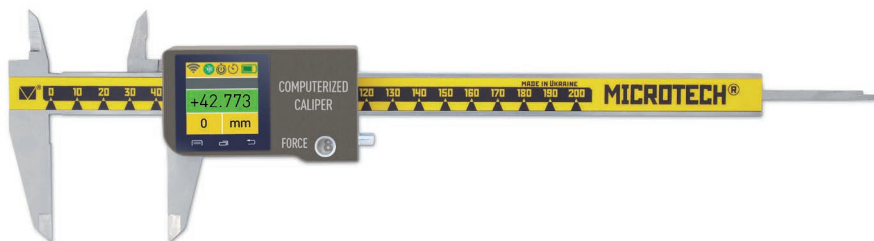app@microtech.ua
F411RE
FW: 1.1.1
MAC: 00000
ID: 00000000

Information about firmware version
and MAC adress for easy connection

Change without prior notice
Edition: M1030_0520