SUB-MICRON COMPUTERIZED MICROMETER HEAD MICROTECH

ISO/IES 17025:2006 (cert. № 4K051)

Quality management system
ISO 9001:2015 (cert. № U228396)

Item No	Range	Resolution	Accuracy	Protection class	Data output		Data output		Calibration
	mm	mm	mm				USB	Wireless	ISO 17025
110181027	0-25	0,0001	±0,002	IP-65	Error & Temp comp. Preset. Memory Max/Min Limits		+	max 50m	+

Parameters	
LED display	color 1,5 inch
Power supply	Rechargeable Li-Pol battery
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch, Reset
Wireless data transfer	10+m

PRECISION MEASUREMENTS
MICROTECH computerized micrometer with 0.1 resolution can be used for high precisoт measurements in manufacturing, automotive medical industry and for calibration

COLOR GO/NOGO INDICATION
Easy and quick limits control.
It's possible setup max and min value throw menu.
Color indication reduce possibility of error during control

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)

FORMULA MODE
In Formula mode we use Ax^2+Bx+C
Main using of this function is:
- Preset function
- Magnification of measured value
For customers request Formula can be updated

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.

TEMPERATURE COMPENSATION
Temperature compensation function gives possibility recalculate details sizes with high or low temperatures to normal (20C conditions). Available recalculation for 7 materials

MAIN INFO

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

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.
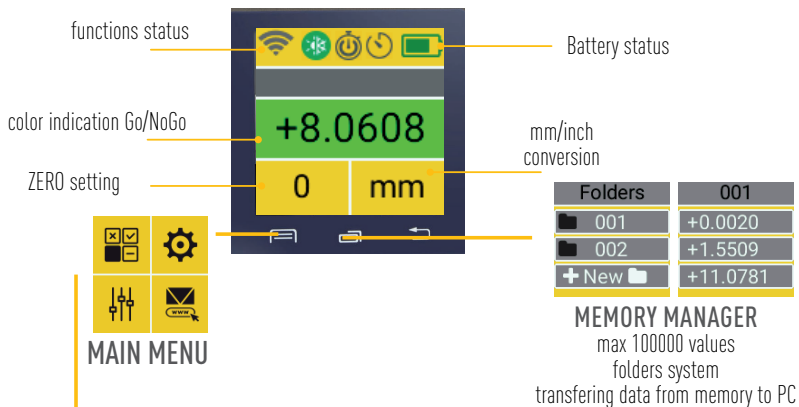For zero setting, press the ZERO button on Touchscreen.

CHARGING

For charging connect USB cable

Charging process indicating
on Battery status
(switch on device)

BUILT-IN BATTERY - rechargeable Li-Pol battery

functions status

Battery status

color indication Go/NoGo

+8.0608

0   mm

mm/inch conversion

ZERO setting

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

MEMORY MANAGER
max 100000 values
folders system
transfering data from memory to PC

MAIN MENU

< +00.0001
> +00.0001
MIN
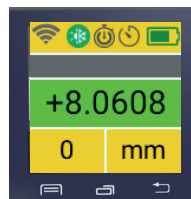
LIMITS
color Go/NoGo

Max/Min
Enable
MAX

MAX/MIN
indicating max or min value

A +00.0000
B +00.0000
C +00.0000
RESET
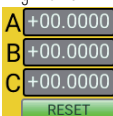
FORMULA MODE
Ax^2+Bx+C

Timer
+000 sec.
RESET

TIMER MODE
saving or transfer data on timer

O: 01.0000
G: 00.0010
OK
RESET
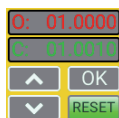
ERROR COMPENSATION
mathematical correction

Temp. comp.
None Mode
+25.00 C
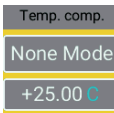
TEMPERATURE COMPENSATION
manual correction 4 materials

Resolution
X.0000

RESOLUTION
selected up to 0.0001mm

Extra
Axis Mode
Normal
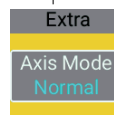
AXIS MODE
normal or inverted

Wireless Trans
Normal
1 min
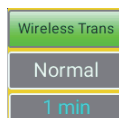
WIRELESS
modes of data transmition

Mode OFF
UART OFF
Keypad ON
CONFIG
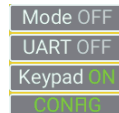
USB
USB connection configuration

Device
Auto start ON
PIN   RESET
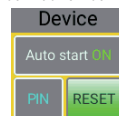
DEVICE SETTING
autostart, reset, password

Angle 0
Sleep off
Light High

SCREEN SETTING
screen rotation, brightness

Mode
Folder
+000
RESET
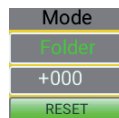
MEMORY SETTING
folder configuration
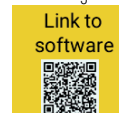
Link to software

SOFTWARE
link to download app

Calibration Date
DAY MONTH YEAR
01   01   2020
CHANGE
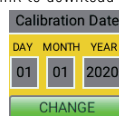
CALIBRATION STATUS
calibration date control

app@microtech.ua
F411RE
FW: 1.1.1
MAC: 00000
ID: 00000000
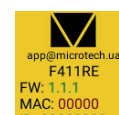
DEVICE INFO
service info about device

CONNECTION

UP TO **50**M

WIRELESS CONNECTION

USB CONNECTION

USB-DONGLE

IMPORT FROM FILE OR CAMERA

21.992
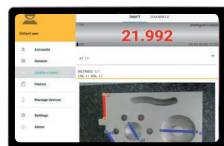
Windows

iOS

ANDROID

DOWNLOAD

DOWNLOAD

DOWNLOAD

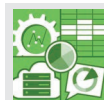|	
X	**SAVING DATA TO XLS. CSV FORMATS**
X	**SAVING DATA TO XLS. CSV FORMATS**
X	**SAVING DATA TO XLS. CSV FORMATS**
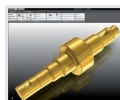
TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE

SAVING GRAPH

SAVING GRAPH

TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS

VOICE MODE

VOICE MODE

QC **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

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

FORMULA

A +00.0000
B +00.0000
C +00.0000
RESET

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

EXAMPLES:
- for value x2 -
  B=2
- set PRESET 100mm
  C=100
- square value
  A=1

MAX/MIN

Max/Min
Enable
MAX

Status indication
on main screen

+8.0608
0 | mm

ENABLE/DISABLE mode
indicating MAX dvalue
indicating MIN value

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: 01.0010
↑ | 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 C

+8.0608
0 | mm

Re-calculation value to calibration conditions 20C
7 types of materlas 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
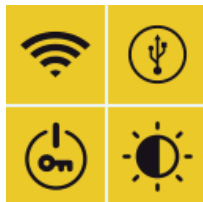
+8.0608
0 | mm

USB CONNECTION

Mode OFF
UART OFF
Keypad ON
CONFIG

Windows

PIN

Device
Auto start ON
PIN | RESET

DISPLAY SETTING

Angle 0
Sleep off

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

+8.0608
0 | mm
+8.0908

MEMORY MANAGER SETTINGS

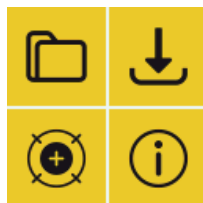Mode | 001
Folder | +0.0020
+000 | +1.5509
RESET | +11.0781

- 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

0.1μm

NON-ROTATING SPINDLE

Free Software for Windows, Android, iOS