



TRANSFORMER COMPUTERIZED MICROMETER MICROTECH



ISO/IES 17025:2006 (cert. № 4K051)



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

1.MODIFICATIONS

Item No	Range	Resolution	Accuracy	Modules	Math error compensation	Temperature compensation	Internal memory	Indication	Data output
	mm	mm	mm				value		
110160155	1000-1500	0,0001	±0,028	2	+	+	100	Touchscreen 1,5"	Wireless+USB
110160205	1500-2000	0,0001	±0,032	2	+	+	100		Wireless+USB
110160305	2000-3000	0,0001	±0,050	3	+	+	100		Wireless+USB
110160405	3000-4000	0,0001	±0,060	4	+	+	100		Wireless+USB
110160505	4000-5000	0,0001	±0,075	5	+	+	100		Wireless+USB
110160605	5000-6000	0,0001	±0,090	6	+	+	100		Wireless+USB
110160705	6000-7000	0,0001	±0,105	7	+	+	100		Wireless+USB
110160805	7000-8000	0,0001	±0,120	8	+	+	100		Wireless+USB
110160905	8000-9000	0,0001	±0,135	9	+	+	100		Wireless+USB
110161005	9000-10000	0,0001	±0,150	10	+	+	100		Wireless+USB

Parameters	
LED display	color 1,5 inch
Power supply	Rechargeable Li-Pol battery
Lifetime	>40h (Medium brightness)
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch, Reset
Wireless data transfer	50m on open area



PRECISION MEASUREMENTS

MICROTECH computerized micrometer with 0.1 resolution can be used for high precision 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 manager 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



- 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 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.

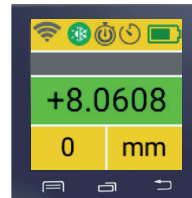
For zero setting, press the ZERO button on Touchscreen.

CHARGING

For charging connect USB cable



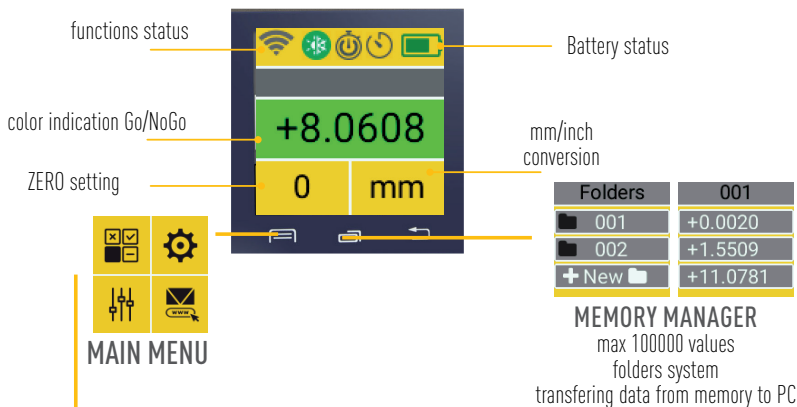
Charging process indicating
on Battery status
(switch on device)



BUILT-IN BATTERY - rechargeable Li-Pol battery

VIDEO INSTRUCTION





< +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



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

AXIS MODE

normal or inverted



Wireless Trans
Normal
1 min

WIRELESS
modes of data transmission

Mode OFF

UART OFF

Keypad ON

CONFIG

USB

USB connection configuration

Device

Auto start ON

PIN

RESET

DEVICE SETTING

autostart, reset, password

Angle 3

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: 000000

ID: 00000000

DEVICE INFO

service info about device



USB CONNECTION



USB-DONGLE

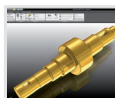


Windows

DOWNLOAD



SAVING DATA
TO XLS. CSV
FORMATS



TRANSFER DATA TO
CAD, SPC OR OTHER
SOFTWARE



TRANSFER DATA TO
EXCEL OR OTHER
TABLE EDITORS



UP TO 50M

WIRELESS CONNECTION



iOS

DOWNLOAD



SAVING DATA
TO XLS. CSV
FORMATS

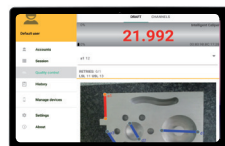


SAVING
GRAPH



VOICE
MODE

IMPORT FROM FILE OR CAMERA



ANDROID

DOWNLOAD



SAVING DATA
TO XLS. CSV
FORMATS



SAVING
GRAPH



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 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





MICROTECH

FUNCTIONS

LIMITS GO/NOGO

MENU SETTING

+00.0001

+00.0001

MIN

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

MAIN SCREEN

+8.0608

0 mm

NoGo Go NoGo

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)

MATH. ERROR COMPENSATION

O: 01.0000

E: 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

RESOLUTION

Resolution

X.0000

+8.0608

Selecting instrument resolution

MAX/MIN

Max/Min

Enable

MAX

ENABLE/DISABLE mode indicating MAX dvalue indicating MIN value

Status indication on main screen

+8.0608

0 mm

TIMER

Timer

+000 sec.

RESET

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

Timer indication on main screen

+8.0608

0 mm

TEMPERATURE COMPENSATION

Temp. comp.

Glass, Quartz

Solid alloys, Mo

+25.00 C

OK

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

+8.0608

0 mm

EXTRA (Axis mode)

Extra

Axis Mode

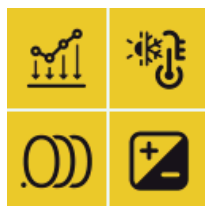
Normal

Selecting normal or inverted axis mode

+/- value indication

+8.0608

0 mm



FUNCTIONS



MICROTECH

WIRELESS CONNECTION

Wireless Trans

Normal

1 min

WIRELESS status

+8.0608

0 mm

USB CONNECTION

Mode OFF

UART OFF

Keypad ON

CONFIG



PIN

Device

Auto start ON

PIN RESET

DISPLAY SETTING

Angle

Sleep

Brightness slider

Rotation 0, 90, 180, 270

Sleep mode

Brightness level

8090'8+

0 mm

0

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

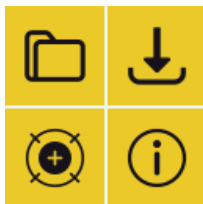
Link to software

QR code

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: 000000

ID: 00000000

Information about firmware version and MAC adress for easy connection





5. INSTRUMENT FIGURE



15 minutes for assembling

