



MICROTECH



COMPUTERIZED RADIUS GAUGE

USER MANUAL



ISO17025:2017

ISO 9001
BUREAU VERITAS
Certification



ISO 9001:2015

www.microtech.ua

**MICROTECH**

SPECIFICATION

Item No	Radius		Type	Resol.	Accu- racy	Base
	Range					
	mm	inch		μm	%	mm
1250511017	5-60	0,2-1,2"	internal & external	1	0,4-1	10
1250511007	40-1200	2-48"				40
1250511117	250-7500	10-300"				200
1250511127	500-15000	20-600"				300

TECHNICAL DATA

Parameters	
LED display	color 2,4 inch 320x240
Indication system	MICS 4.0
Power supply	Rechargeable Li-Pol battery 500 mAh
Charging port	micro-USB
Case material	Aluminium
Wireless data transfer	Long range / HID
USB data transfer	USB HID

MAIN INFO

**SWITCH ON DEVICE** - button push (1 sec)**SWITCH OFF DEVICE** - button push (3 sec)/ auto switch off**DATA TRANSFER** - programming throw menu**BUILT-IN BATTERY** - rechargeable Li-Pol battery

DOWNLOAD APP

DOWNLOAD MDS APP FOR MICROTECH DEVICES
 WIRELESS CONNECTION FROM www.microtech.ua,
 GooglePlay & App Store



MAIN INFO



MICROTECH

- Install requested Radius anvils from the set, according recommendation in Table
- 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).
- Check that activating **Radius_AUTO** mode in FORMULA menu
- If you use interchangeable anvils - install A and C coefficient from Table
- For **ZERO** setting put RADIUS gauge to the surface plate and press the 0 button on Touchscreen.
- You can measuring Internal & External radiuses in both direction
- Save measuring data to internal indicator memory with touch data on screen or by button push (necessery activating throw menu). You can view saved data throw menu or send throw Wireless connection to Windows PC, Android or iOS devices.



Probe lenght	Optimal measuring range	Coefficient in Radius formula		
		A	B	C
mm	mm			
10	5-60	10	0	2,5
40	40-1200	40	0	6
200	250-7500	200	0	8
300	500-15000	300	0	8

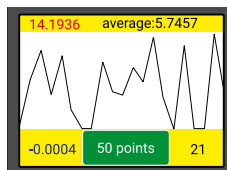


MICROTECH

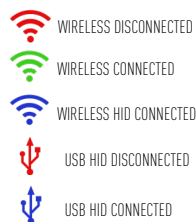
MAIN SCREEN

**ON-LINE
GRAPHIC MODE**

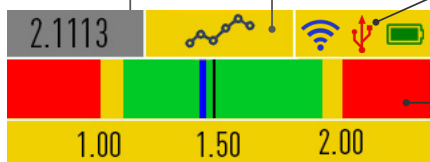
LAST VALUE



CONNECTION STATUS



ANALOG SCALE



1.4705

0

MENU

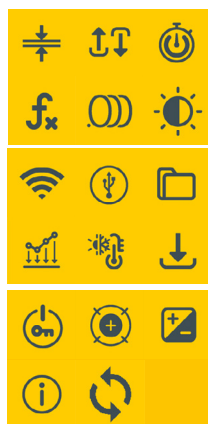
177

MEMORY

STANDARD or FOLDER system can be activated throw MEMORY menu



For save measuring data to internal device memory touch data area on screen or button push. You can view saved data or send by WIRELESS or USB connection to Windows PC, Android or iOS It's possible to use Standard or Folders memory modes



Stat	All
1: 0.0000	
2: 1.2334	
3: 1.2337	
4: 1.2333	
5: 1.2341	

FOLDERS SYSTEM

Stat	All
1: 0.0000	
2: 1.2334	
3: 1.2337	
4: 1.2333	
5: 1.2341	

MEMORY 2000 VAL.

Stat	All
1: 0.0000	
2: 1.2334	
3: 1.2337	
4: 1.2333	
5: 1.2341	

MEMORY EXPORT

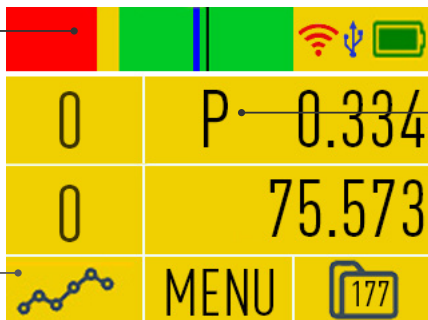
Statistic
MAX: +26.999
MIN: 8.8673
AVG: +5.3213
D: +26.863

STATISTIC

MAIN SCREEN on 2D mode

ANALOG SCALE

FOR **PROBE** MODE



2D AND HUB MODE

PROBE - Saving data when Probe will reach value
PROBE Auto - Saving data when Probe will reach value with this value compensation
2D - 2 axis data reading
2D Sync - Synchronized 2 axis data reading

**ON-LINE
GRAPHIC MODE**

FUNCTIONS



MICROTECH

LIMITS mode GO/NOGO



MAX - NoGo more Upper limit
MIN - NoGo less Lower limit
RANGE - Go between Limits
SCALE - Analog scale active

COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo

> 2.000	Upper limit
< 3.000	Lower limit
% 20	Yellow zone on analog scale
SCALE	RES

PEAK mode MAX/MIN/MODULE/RANGE



DISABLE - non active mode
ENABLE - activating mode
REFRESH - refresh peak value according timer

Max/Min
Enabled
MAX

MAX - indicating MAX measured value
MIN - indicating MIN measured value
MODULE - indicating MAX module
RANGE - indicating deviation between MAX and MIN

TIMER mode



SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

Timer
0.000 sec
Reset

Select timer period
Reset to deactivate mode

FORMULA mode



Formula
Ax^2+Bx+C
Set Argv

Select FORMULA Type (Math, Radius or other)
Select arguments

RESOLUTION selection



Resolution
X.0000
mm

Resolution selecting
mm/inch conversion

DISPLAY settings



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)

Display
Angle 270
Sleep ON

Display rotation 0°, 90°, 180°, 270°
Brightness level

LINEAR error compensation



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

O: 17.251	actual values
C: 17.258	correct values by up&down button
UP	OK
DN	RES

confirm point correction

TEMP compensation



Manual Temperature setting

Temp.com.
Cu, Cu alloys
27.5°C
RES

4 types of material for selection:

- Glass, Quartz
- Stainless steel
- Cuprum and alloys
- Aluminium and alloys



WIRELESS data transfer



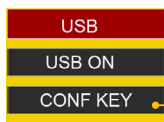
Reconnection button

Wireless power

regulation

**ON** - WIRELESS data transfer to MDS App for Android, iOS, Windows**HID**- WIRELESS HID direct transfer data to any App in Windows, MacOS, Linux, Android devices (like keyboard). Configure data format in USB sub-menu**2D-S** - Slave device on WIRELESS connection on HUB mode**2D-M** - Master device on WIRELESS connection on HUB mode

USB OTG data transfer



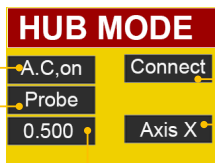
Connect USB cable to PC & Activate USB HID connection mode

Select setting of data transfer

Direct transfer data to any App in Windows, MacOS, Linux, Android devices

Configuring data transfer Dot/Comma and Tab/Arrow Down/CR+LF

HUB connection

**A.C.on** - Auto Connection active**A.C.off** - Auto Connection no active**PROBE** - Saving data when Probe will reach value**PROBE Auto** - Saving data when Probe will reach value with this value compensation**2D** - 2 axis data reading**2D Sync**- Synchronized 2 axis data reading**Disable** - switch off modes

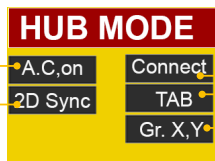
PROBE MODE

External Wireless device connecton

Axis priority selecting

Setting PROBE limit value

2D MODE

A.C.on - Auto Connection active**A.C.off** - Auto Connection no active**PROBE** - Saving data when Probe will reach value**PROBE Auto** - Saving data when Probe will reach value with this value compensation**2D** - 2 axis data reading**2D Sync**- Synchronized 2 axis data reading**Disable** - switch off modes

External Wireless device connecton

Symbol between Axis

Graphic mode indication setting

FUNCTIONS

LINK to app's



QR Link to MICROTECH web site page
with MDS Software download

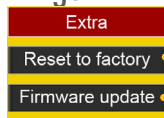
- Android, iOS, Windows versions
- Free and Pro versions
- Manuals



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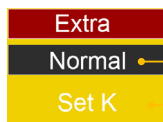
RESET to Factory settings



Push 10 times to RESET device to factory settings

Push 10 times to FIRMWARE UPDATE

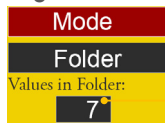
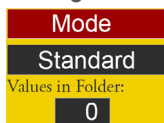
EXTRA



Selecting normal or inverted axis mode (+/- value indication)

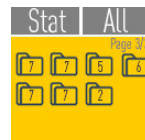
Coefficient setting (for distributor and calibration only)

MEMORY manager setting



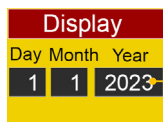
Activating STANDARD
or FOLDER SYSTEM

Values in each Folder



FOLDERS SYSTEM

CALIBRATION date info



Push for change calibration date info

Device INFO



Information about device

- Firmware version

- MAC address for WIRELESS connection

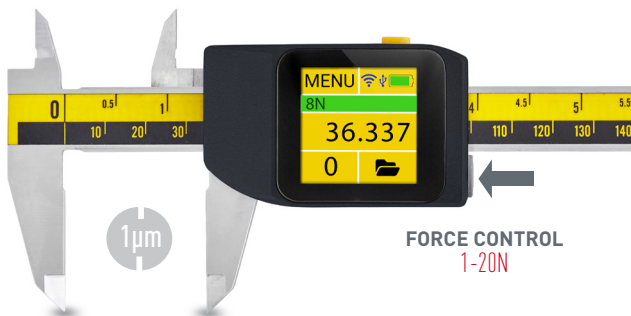


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INDUSTRY 4.0 INSTRUMENTS



0,1μm



FORCE CONTROL
1-20N



0,1μm



0,1μm



1μm

MICROTECH

innovative measuring instruments

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