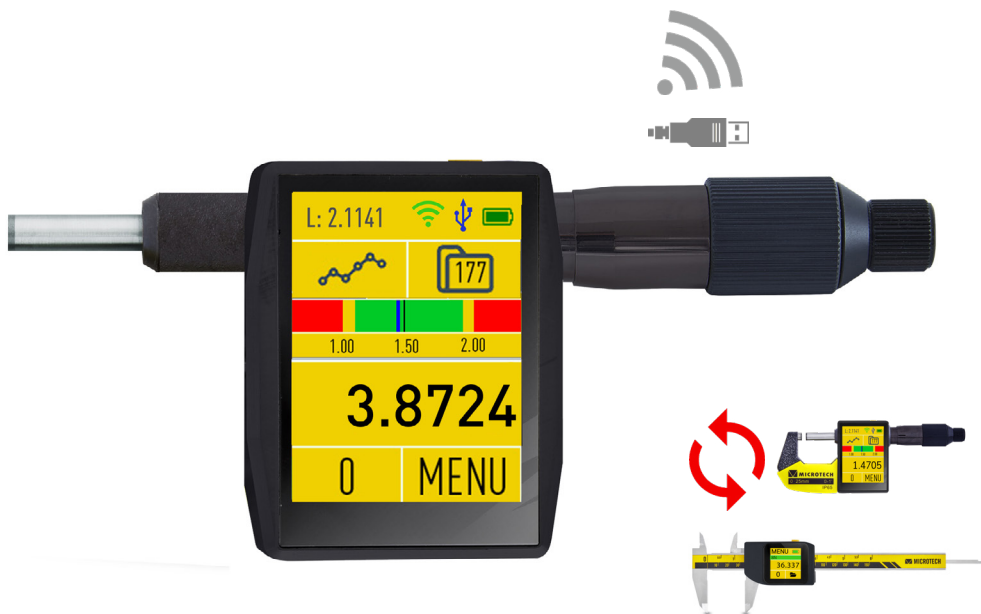




SUB-MICRON TABLET MICROMETER HEAD

USER MANUAL



ISO17025:2017



ISO 9001:2015



Item No	Range		Resol.	Accu- racy	NON-ROTATING Measuring HUB	Graphic	Analog scale	Preset	Go/NoGo	Max/Min	Formula	Timer	Temp comp	Linear corr	Calibr date	Recharge	Memory	WIRELESS	USB
	mm	inch	mm	μm															
110180029	0-25	0-1"	0,0001	±1.5		•	•	•	•	•	•	•	•	•	•	•	val	Folders / 2000	Long+ HID
110181029				±1.5	•	•	•	•	•	•	•	•	•	•	•	•			
110181059	0-50	0-2"		±2.5		•	•	•	•	•	•	•	•	•	•	•		USB HID / Update	

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

TECHNICAL DATA

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



DATA TRANSFER



MICROTECH

3 MODES OF DATA TRANSFER (USB + 2 WIRELESS MODES)

WIRELESS CONNECTION TO MDS APP

WIRELESS data transfer to MICROTECH
MDS app for Windows, Android, iOS



SAVING DATA
TO XLS. CSV
FORMATS



TRANSFER DATA TO
CAD, SPC OR OTHER
SOFTWARE



TRANSFER DATA TO
EXCEL OR OTHER
TABLE EDITORS



SAVING
GRAPH



FREE SOFTWARE



NO DONGLE



WIRELESS HID CONNECTION USB HID CONNECTION



NO DONGLE



WIRELESS HID and USB HID data
transfer (like keyboard) direct to any
customers app and system



TRANSFER DATA TO
CAD, SPC OR OTHER
SOFTWARE

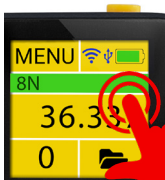


TRANSFER DATA TO
EXCEL OR OTHER
TABLE EDITORS

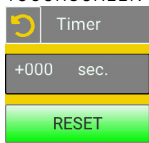


TRANSFER DATA
TO ANY BROWSER
OR APP

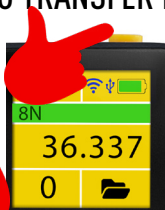
7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



TOUCHSCREEN TAP



BY TIMER



BUTTON PUSH



FROM MEMORY



SELECTED FORCE



IN MDS APP

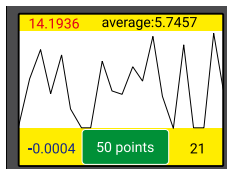




MICROTECH

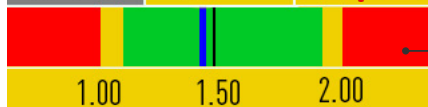
MAIN SCREEN

**ON-LINE
GRAPHIC MODE**



LAST VALUE

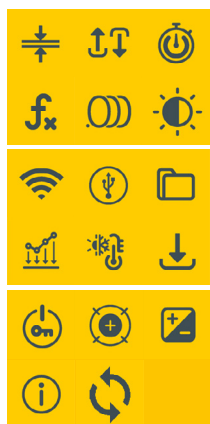
2.1113



ANALOG SCALE

1.4705

0 MENU 177



CONNECTION STATUS

- WIRELESS DISCONNECTED
- WIRELESS CONNECTED
- WIRELESS HID CONNECTED
- USB HID DISCONNECTED
- USB HID CONNECTED

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



0 P 0.334

0 75.573

MENU 177

**ON-LINE
GRAPHIC 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

FUNCTIONS



MICROTECH

LIMITS mode GO/NOGO



MAX - NoGo more Upper limit
MIN - NoGo less Lower limit
RANGE - Go between Limits
NONE - 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



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

INDICATION AND SAVING MAX OR MIN VALUES

Max/Min	
Enabled	MAX - indicating MAX measured value MIN - indicating MIN measured value
MAX	

TIMER mode



SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

Timer	
0.000 sec	Select timer period
Reset	Reset to deactivate mode

FORMULA mode



Formula	
Ax ² +Bx+C	Select FORMULA Type (Math, Radius or other)
Set Argv	Select arguments

RESOLUTION selection



Resolution	
X.0000	Resolution selecting
mm	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	Display rotation 0°, 90°, 180°, 270°
Sleep ON	Brightness level

LINEAR error compensation



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

Linear correction error's on device

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

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

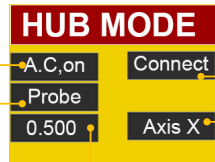
PROBE - Saving data when Probe will reach value

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



Setting PROBE limit value

PROBE MODE

External Wireless device connection

Axis priority selecting

2D MODE

A.C.on - Auto Connection active
A.C.off - Auto Connection no active

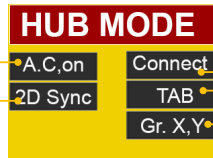
PROBE - Saving data when Probe will reach value

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 connection

Symbol between Axis

Graphic mode indication setting

FUNCTIONS



MICROTECH

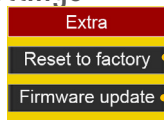
LINK to app's



QR Link to MICROTECH web site page
with MDS Software download

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

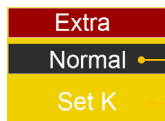
RESET to Factory settings



Push 10 times to RESET device to factory settings

Push 10 times to FIRMWARE UPDATE

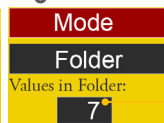
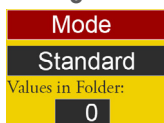
EXTRA



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

Coefficient setting (for distributor and calibration only)

MEMORY manager setting

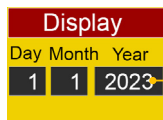


Activating STANDARD
or FOLDER SYSTEM

Values in each Folder

FOLDERS SYSTEM

CALIBRATION date info



Push for change calibration date info

Device INFO



Information about device

- Firmware version
- MAC adress for WIRELESS connection

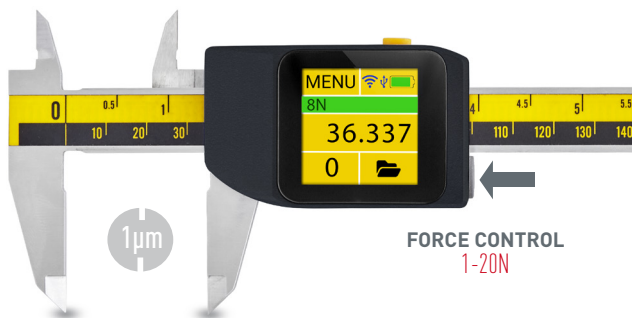


MICROTECH

INDUSTRY 4.0 INSTRUMENTS



0,1µm



FORCE CONTROL
1-20N



0,1µm



0,1µm



1µm

MICROTECH

innovative measuring instruments

61001, Kharkiv, Ukraine, str. Rustaveli, 39

tel.: +38 (057) 739-03-50

www.microtech.ua

tool@microtech.ua

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