SUB-MICRON UNIVERSAL TABLET MICROMETER
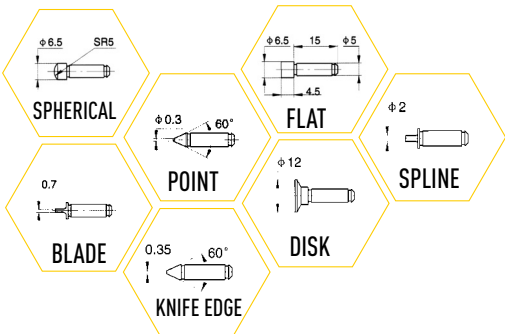## USER MANUAL
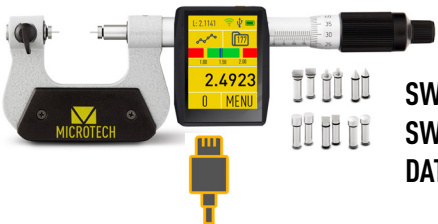
ISO17025:2017

ISO 9001
BUREAU VERITAS
Certification

ISO 9001:2015

SPECIFICATION

Item No	Range		Resol.	Accur.	NON-ROTATING	Analog scale	Graphical mode	Preset	Go/NoGo	Max/Min	Formula	Timer	Temp comp	Linear corr	Calibr date	Connect. status	Recharge batt	2D Syncronize	Memory	Wireless	USB	Color Display
	mm	inch	mm	µm																		
110750258	0-25	0-1″		±3	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110750508	25-50	1-2″		±3	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110750758	50-75	2-3″		±4	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110751008	75-100	3-4″		±4	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110751258	100-125	4-5″		±5	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110751508	125-150	5-6″		±5	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110751758	150-175	6-7″		±6	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110752008	175-200	7-8″		±7	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110752258	200-225	8-9″	**0,0001**	±7	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110752508	225-250	9-10″	**0.001**	±8	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110752758	250-275	10-11″	**0.01**	±8	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110753008	275-300	11-12″		±8	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110754008	300-400	12-16″		±10	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110755008	400-500	16-20″		±10	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110756008	500-600	20-24″		±12	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110757008	600-700	24-28″		±14	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110758008	700-800	28-32″		±14	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110759008	800-900	32-36″		±15	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
110750008	900-1000	36-40″		±15	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•

Memory: Folders / 2000 val
Wireless: Long range / HID
USB: USB HID / Update
Color Display: Touchscreen 2.4″

7 PAIRS OF ANVILS

SPHERICAL — φ6.5 SR5

POINT — φ0.3 60°

BLADE — 0.7

KNIFE EDGE — 0.35 60°

FLAT — φ6.5 15 φ5 4.5

DISK — φ12

SPLINE — φ2

MAIN INFO

L:2.1141
2.4923
0 MENU

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

DATA TRANSFER

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

WIRELESS CONNECTION TO MDS APP

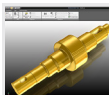WIRELESS data transfer to MICROTECH
MDS app for Windows, Android, iOS

FREE SOFTWARE

Windows iOS android

NO DONGLE

SAVING DATA TO XLS. CSV FORMATS

TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE

TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS

SAVING GRAPH

WIRELESS HID CONNECTION
USB HID CONNECTION

NO DONGLE

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

Windows iOS android LINUX macOS

TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE

TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS
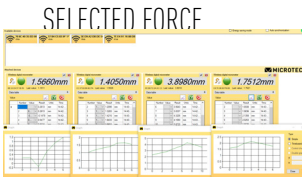
TRANSFER DATA TO ANY BROWSWE OR APP

7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET

TOUCHSCREEN TAP

BUTTON PUSH

SELECTED FORCE
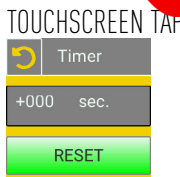
BY TIMER
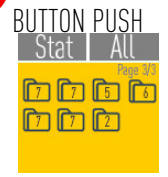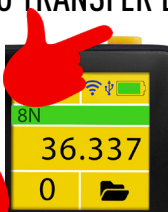
FROM MEMORY

IN MDS APP

MAIN SCREEN

ON-LINE GRAPHIC MODE

14.1936   average:5.7457

-0.0004   50 points   21

LAST VALUE

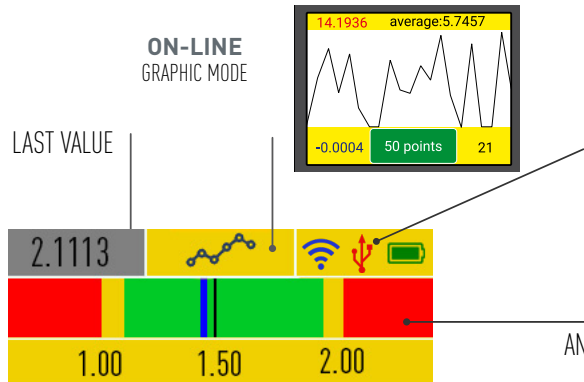## CONNECTION STATUS

WIRELESS DISCONNECTED

WIRELESS CONNECTED

WIRELESS HID CONNECTED

USB HID DISCONNECTED

USB HID CONNECTED

ANALOG SCALE

2.1113

1.00   1.50   2.00

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
Page 3/3
7 7 5 6
7 7 2

FOLDERS SYSTEM

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

MEMORY 2000 VAL.

Stat	All
Delete or Send?
Del	Send

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

ON-LINE GRAPHIC MODE

MENU   177
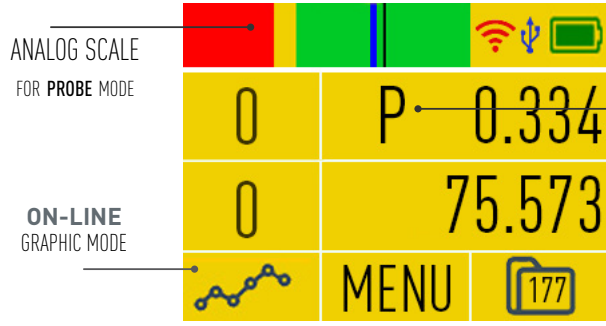
2D AND **HUB** MODE

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

LIMITS mode GO/NOGO

COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo

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

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

SCALE   RES

PEAK mode MAX/MIN

INDICATION AND SAVING MAX OR MIN VALUES

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

Max/Min
Enabled
MAX

MAX - indicating MAX measured value
MIN - indicating MIN measured value

TIMER mode

SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

Timer
0.000 sec — Select timer period
Reset — Reset to disactivate 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
Sleep ON

Display rotation 0°, 90°, 180°, 270°

Brightness level

LINEAR error compensation

Linear correction error's on device

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 — 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
- Alluminium and alloys

MICROTECH

WIRELESS data transfer

Wireless
HID
CLEAR

Recconection 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

USB
USB ON
CONF KEY
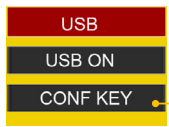
Connect USB cable to PC & Activate USB HID connection mode
Select setting of data transfer
Direct transfer data to any App in Windows, MacOS, Linux, Android devices

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

HUB connection

PROBE 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

HUB MODE
A.C,on
Probe
0.500
Connect
Axis X
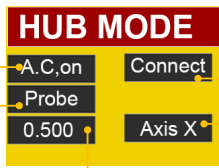
External Wireless device conneciton

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

HUB MODE
A.C,on
2D Sync
Connect
TAB
Gr. X,Y
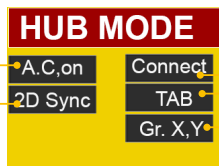
External Wireless device conneciton

Symbol between Axis
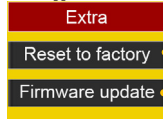
Graphic mode indication setting

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

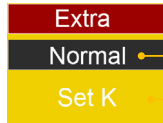## RESET to Factory settings

Extra
Reset to factory — Push 10 times to RESET device to factory settings
Firmware update — Push 10 times to FIRMWARE UPDATE

EXTRA

Extra
Normal — Selecting normal or inverted axis mode (+/- value indication)
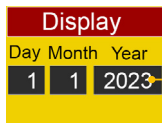Set K — Coefficient setting (for distributor and calibration only)

MEMORY manager setting

Mode
Standard
Values in Folder:
0

Mode
Folder
Values in Folder:
7
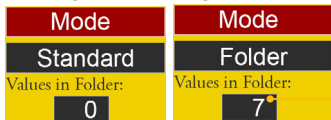
Activating STANDARD or FOLDER SYSTEM

Values in each Folder

FOLDERS SYSTEM

CALIBRATION date info

Display
Day Month Year
1 1 2023

Push for change calibration date info

Device INFO

MICROTECH
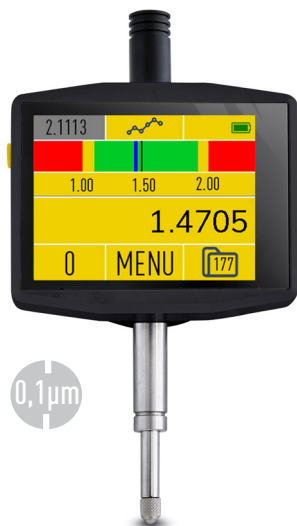www.microtech.ua
FW 4.0.37
XX:XX:XX:XX:XX:XX

Information about device
- Firmware version
- MAC adress for WIRELESS connection

MICROTECH

INDUSTRY 4.0 INSTRUMENTS
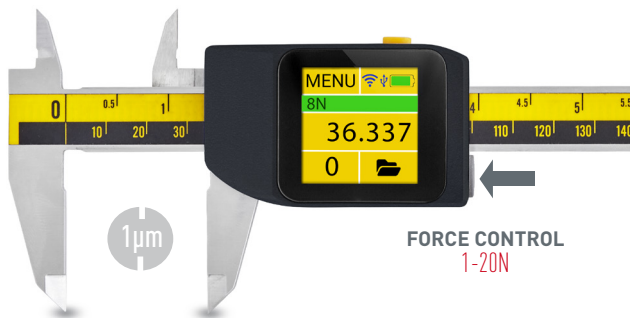
FORCE CONTROL
1-20N

0,1µm

1µm

0,1µm

0,1µm

0,1µm

1µm

MICROTECH

innovative measuring instruments

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tool@microtech.ua

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