



MICROTECH



COMPUTERIZED DOUBLE COLUMN HEIGHT GAUGE

USER MANUAL



ISO17025:2017



ISO 9001:2015

www.microtech.ua



MANUAL MICRON HEIGHT GAUGE

[illegible]

TOUCHPROBE MICRON HEIGHT GAUGE

[illegible]

MANUAL 2D HEIGHT GAUGE

[illegible]



Parameters	
LED display	color 3,5 inch 480x320
Indication system	MICS 4.0
Power supply	Rechargeable Li-Pol battery 2000 mAh
Charging port	micro-USB
Case material	Aluminium
Wireless data transfer	Long range / HID
USB data transfer	USB HID

MAIN INFO



BUILT-IN BATTERY - rechargeable Li-Pol battery

SWITCH ON DEVICE - button push (1 sec)

SWITCH OFF DEVICE - button push (3 sec)/ auto switch off

DATA TRANSFER - programming throw menu

DOWNLOAD APP

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





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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

Windows

iOS

android

LINUX

macOS

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



TRANSFER DATA TO
CAD, SPC OR OTHER
SOFTWARE



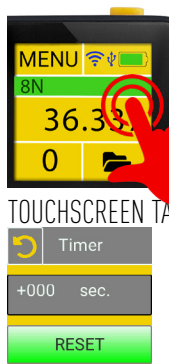
TRANSFER DATA TO
EXCEL OR OTHER
TABLE EDITORS



TRANSFER DATA
TO ANY BROWSER
OR APP

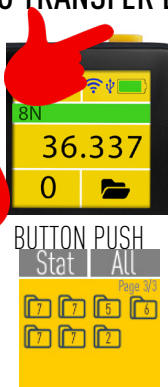


7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



TOUCHSCREEN TAP

BY TIMER



BUTTON PUSH

FROM MEMORY



SELECTED FORCE

IN MDS APP

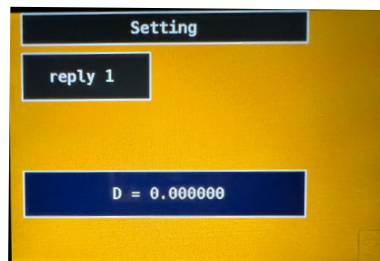
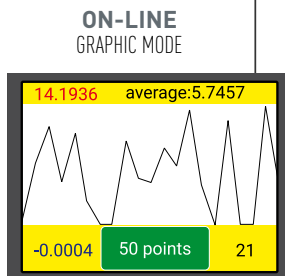
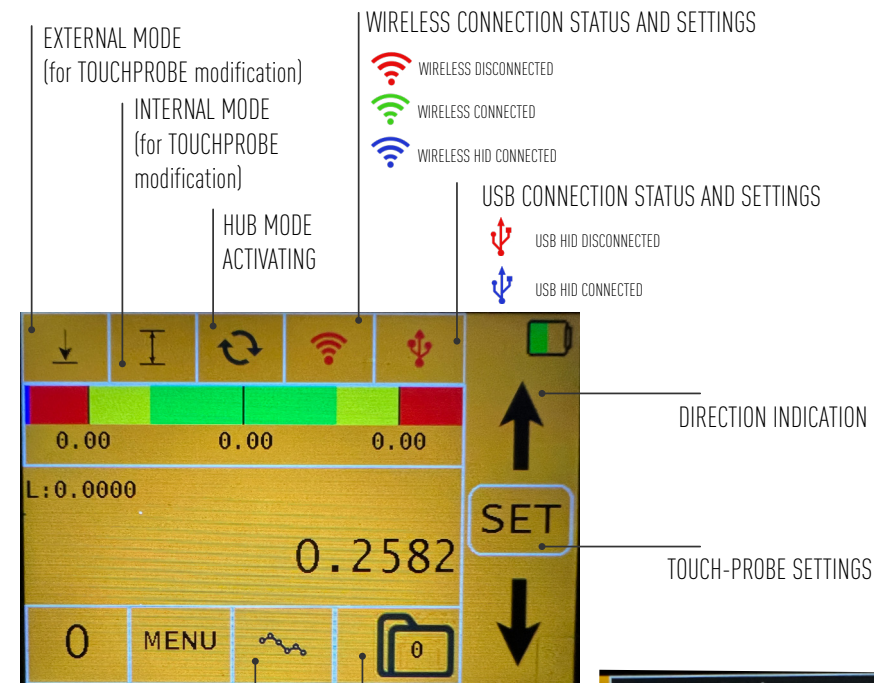


FROM PAIRED DEVICE

MAIN SCREEN



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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
Delete or Send?	
Del	Send

MEMORY EXPORT

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

STATISTIC



MICROTECH

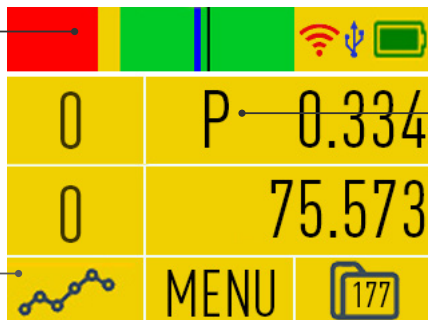
MAIN SCREEN on 2D mode

ANALOG SCALE

FOR PROBE MODE

ON-LINE

GRAPHIC MODE



2D AND HUB MODE

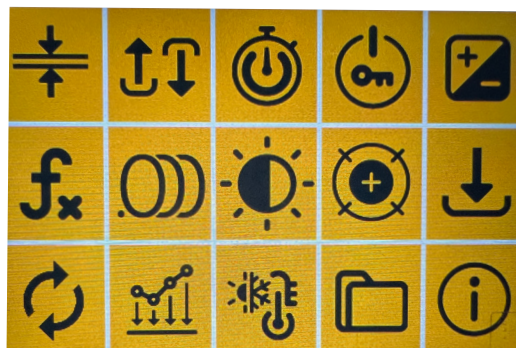
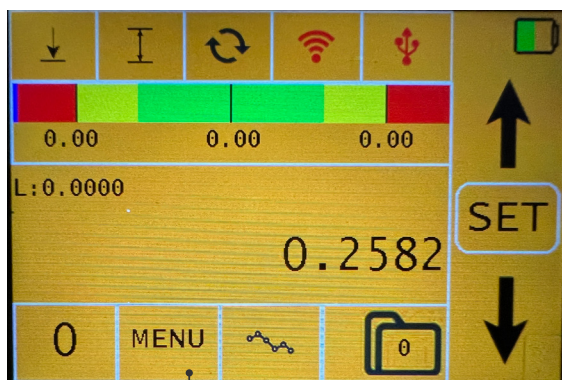
PROBE - Saving data when Probe will reach value

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

MENU DISPLAY



NAVIGATION IN MENU BY TOUCHSCREEN

EXIT FROM FUNCTION - TOUCHSCREEN SWAP or BUTTON PUSH (1s)



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 — **MAX** - indicating MAX measured value
 MIN — **MIN** - indicating MIN measured value
 RANGE — **RANGE** - indicating difference between MIN & MAX 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 — Display rotation 0°, 90°, 180°, 270°
 Angle 270
 Sleep ON
 — Brightness level



LINEAR error compensation



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

O: 17.251	
C: 17.258	
UP	OK
DN	RES

Linear correction error's on device

actual values

correct values by up&down button

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
- Alluminium and alloys

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
Firmware update

Push 10 times to RESET device to factory settings

Push 10 times to FIRMWARE UPDATE

EXTRA



Extra
Normal
Set K

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

Coefficient setting (for distributor and calibration only)

CALIBRATION date info



Display		
Day	Month	Year
1	1	2023

Push for change calibration date info

Device INFO

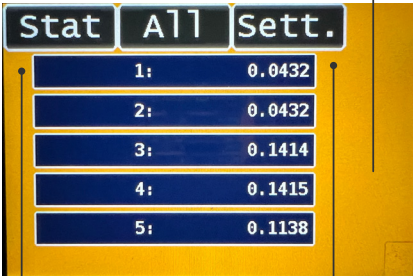


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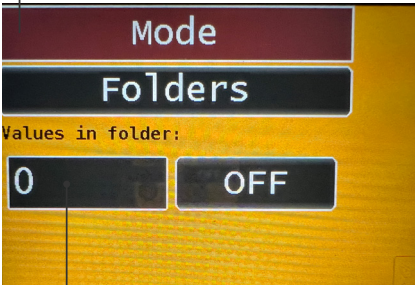
www.microtech.ua
FW 4.0.37
XX:XX:XX:XX:XX:XX

Information about device

- Firmware version
- MAC adress for WIRELESS connection



STANDARD or FOLDER system can be activated throw MEMORY menu



Values in each Folder

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

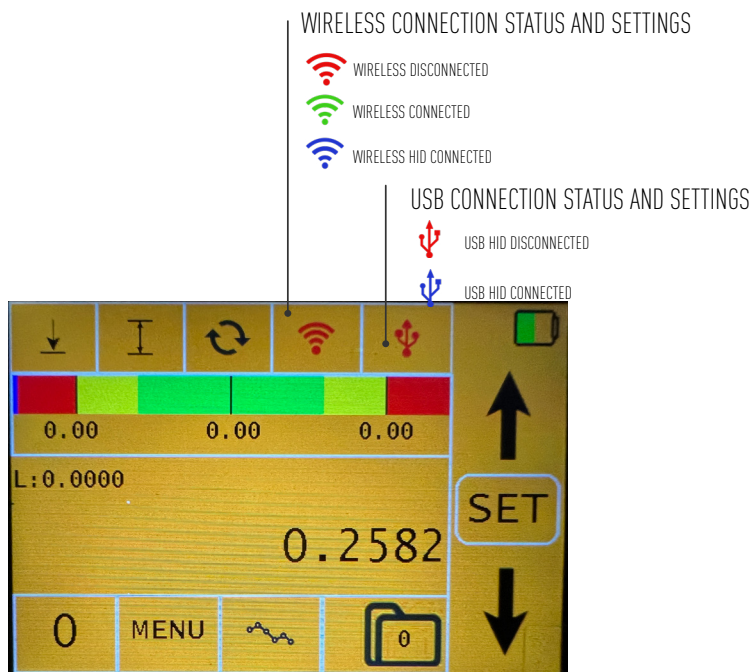
STANDARD MODE

Stat	All
7	7
5	8
7	2

FOLDERS MODE



ACTIVATE REQUESTED DATA TRANSFER MODE FROM MAIN SCREEN



WIRELESS data transfer

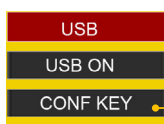


Reconnection button
Wireless power
regulation



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

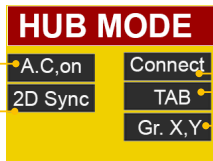
USB OTG data transfer



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



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



External Wireless device connection

Symbol between Axis

Graphic mode indication setting

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

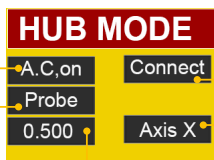
Disable - switch off modes

2D MODE

2D CONNECTION PROCESS

1. **Slave device** WIRELESS menu- 1.1 Push **CLEAR** button and 1.2 Activate 2D Slave mode **2D-S**
2. **MASTER device** WIRELESS menu- 2.1 Push **CLEAR** button and 2.2 Activate 2D Master mode **2D-M**
3. **MASTER device** HUB connection menu- 3.1 Activate **2D** or **2D Sync** mode and 3.2 Setting **A.C.on /off** (auto-reconnect) and 3.3 setting of saving on memory and transfer data (X, Y or XY synchronized)
4. **MASTER device** HUB connection menu- 4.1 Push **CONNECT** button and start searching Slave devices (40s)
 4.2 push for MAC address of indicated slave device to start connection. 4.3. If **MASTER device** indicate **SUCCESSFUL CONNECTION** - you can start measurements, but If **MASTER device** indicate **CONNECTION ERROR** - re-connect devices again (from step 1).

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



External Wireless device connection

Axis priority selecting

Setting PROBE limit value

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

2D CONNECTION PROCESS

1. **Slave device** WIRELESS menu- 1.1 Push **CLEAR** button and 1.2 Activate 2D Slave mode **2D-S**
2. **MASTER device** WIRELESS menu- 2.1 Push **CLEAR** button and 2.2 Activate 2D Master mode **2D-M**
3. **MASTER device** HUB connection menu- 3.1 Activate **PROBE** or **PROBE Auto** mode and 3.2 Setting **A.C.on / off** (auto-reconnect) and 3.3 Axis priority and 3.4 Probe limit value
4. **MASTER device** HUB connection menu- 4.1 Push **CONNECT** button and start searching Slave devices (40s)
 4.2 push for MAC address of indicated slave device to start connection. 4.3. If **MASTER device** indicate **SUCCESSFUL CONNECTION** - you can start measurements, but If **MASTER device** indicate **CONNECTION ERROR** - re-connect devices again (from step 1).

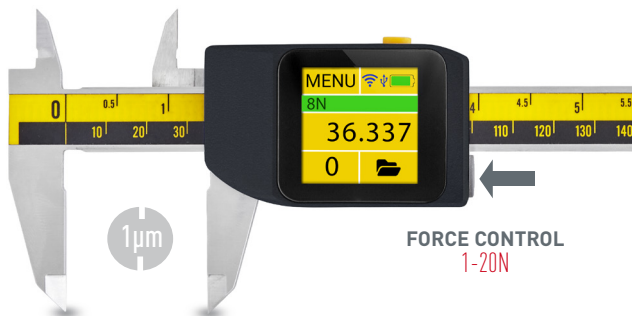
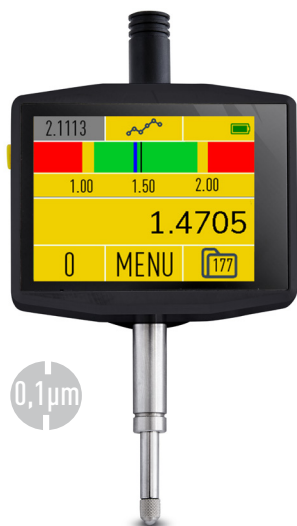
VIDEO INSTRUCTION of 2D and
 PROBE MODE CONNECTION





MICROTECH

INDUSTRY 4.0 INSTRUMENTS



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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