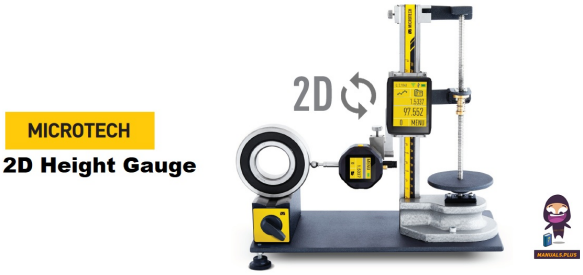


MICROTECH 2D Height Gauge Instructions

Contents

MICROTECH

MICROTECH 2D Height Gauge

Specifications

- **Brand:** MICROTECH
- **Product Name**: MANUAL 2D HEIGHT GAUGE
- **Dimensions:** 1m range
- **Connection:** Wireless to MDS app, Wireless HID+MAC, USB HID
- **Measurement Range:**
  - **Z:** 0-300mm, 0-600mm, 0-25mm, 0-50mm, 0-1000mm, 0-100mm
  - **X:** 0-25mm, 0-50mm
- **Resolution:** Z – 0.001mm, X – 0.0001mm

Product Usage Instructions

1. Ensure the device is charged or connected to a power source.
2. Turn on the device using the power button.
3. Connect wirelessly to the MDS app or use the USB HID connection.
4. Select the appropriate measurement range (Z or X) based on your requirements.
5. Use the graphic analog scale for visual reference during measurements.
6. Utilize features like Preset, Go/NoGo, Max/Min, Formula, Timer, and Memory as needed.
7. For wireless functionality, ensure the device is within range and folders are organized for data storage.

SPECIFICATION

Item No	Range		Resolut.	Accur.	Fine adjust precis.. wheel	2D connection	Measuring HUB	ON-line Graphic	Analog scale	Preset	Go/NoGo	Max/Min	Formula	Timer	Memory	Wireless	USB
	X	Y															
	mm	mm	mm	µm													
1443030371	0-300	0-13	0,001	±15	•	•	•	•	•	•	•	•	•	•	•	•	•
1443050371	0-500	0-25		±20	•	•	•	•	•	•	•	•	•	•	•	•	•
1443090371	0-1000	0-50		±30	•	•	•	•	•	•	•	•	•	•	•	•	•

TECHNICAL DATA

Parameters	
LED display	color 2,4 inch 320×240
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

DOWNLOAD APP

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

Download Windows App

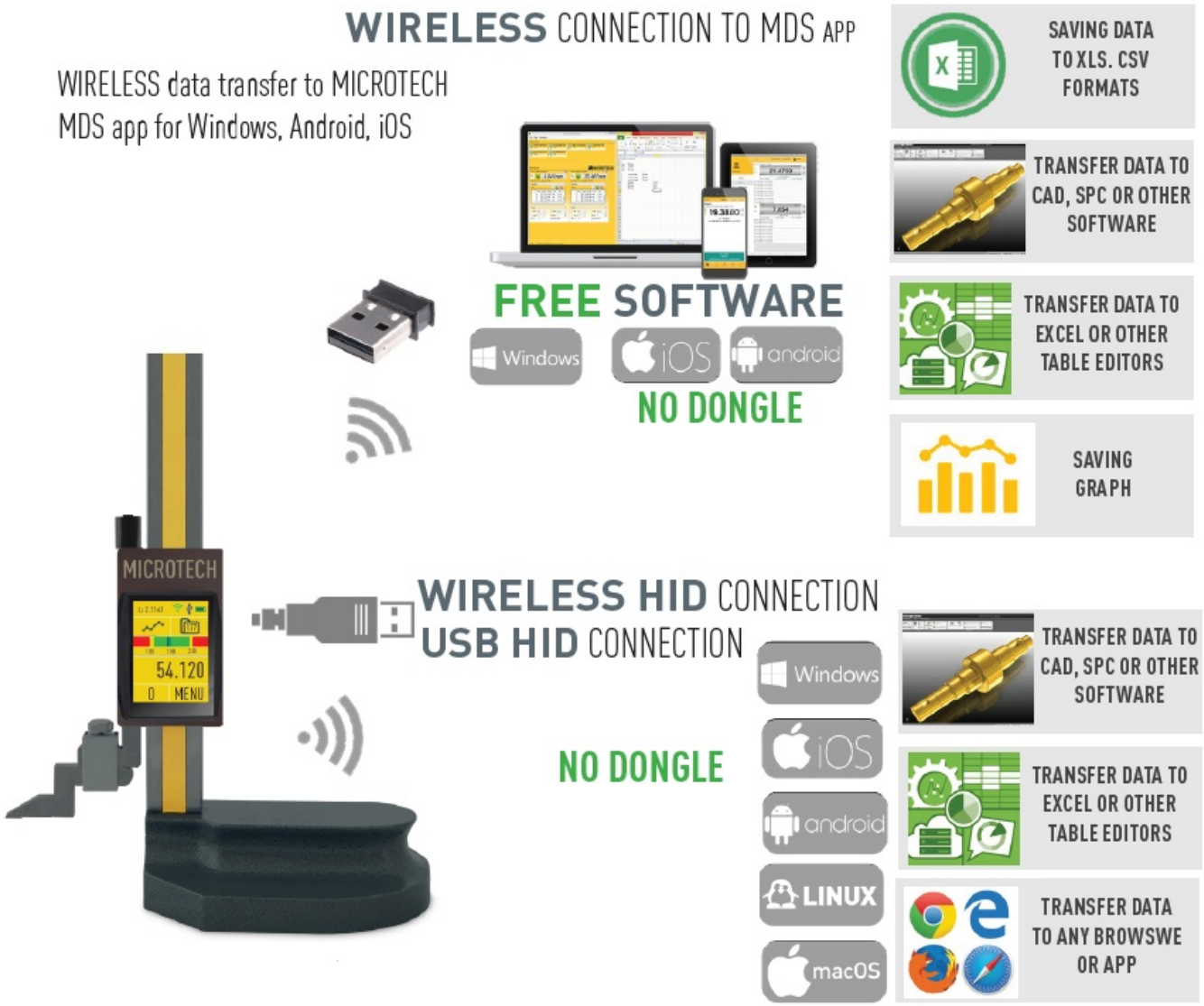
Download on the App Store

GET IT ON Google play

DATA TRANSFER

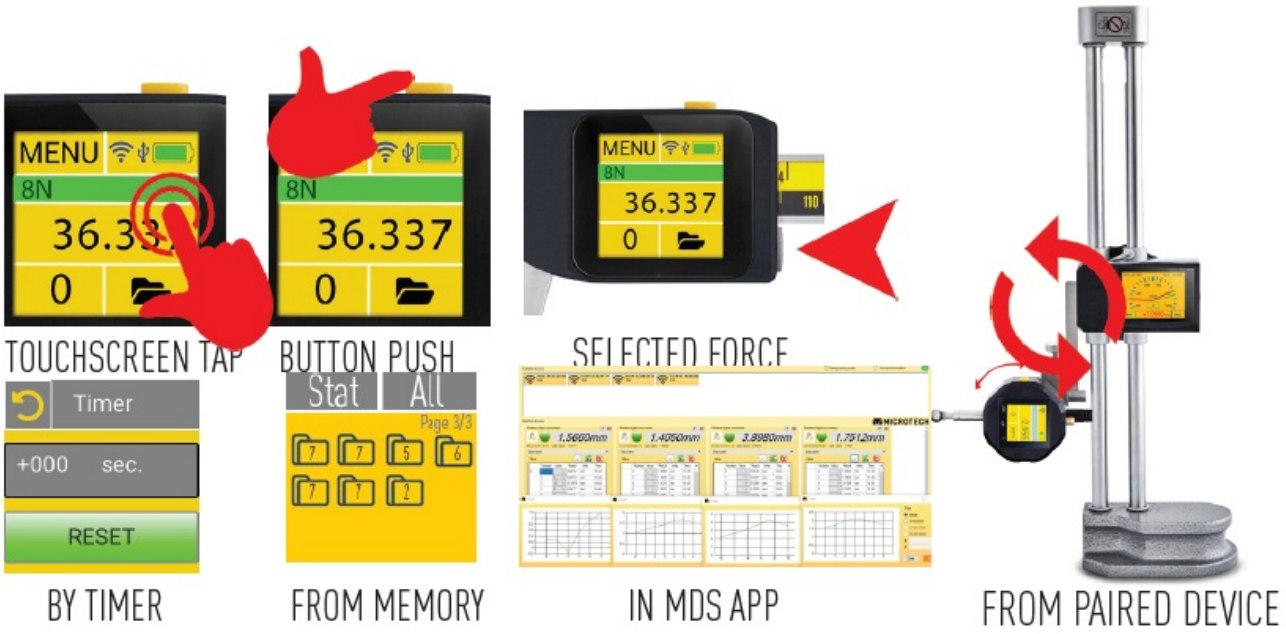
3 MODES OF DATA TRANSFER (USB + 2 WIRELESS MODES)

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

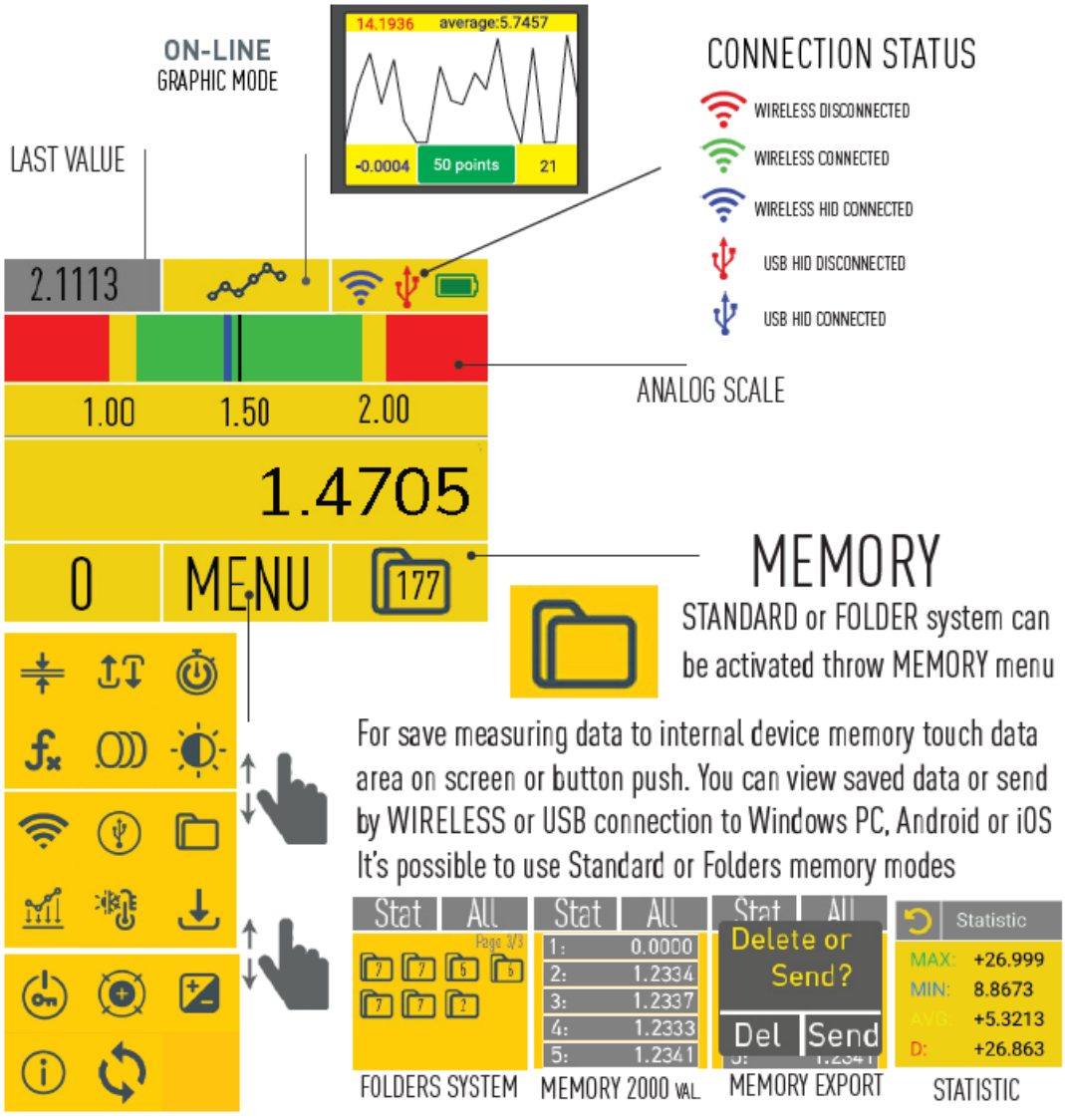


WIRELESS HID and USB HID data transfer (like a keyboard) directly to any customer app and system

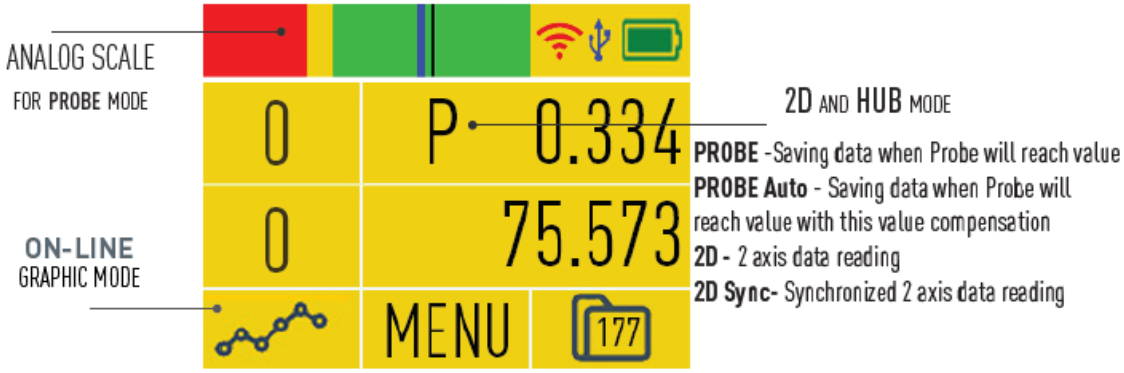
7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



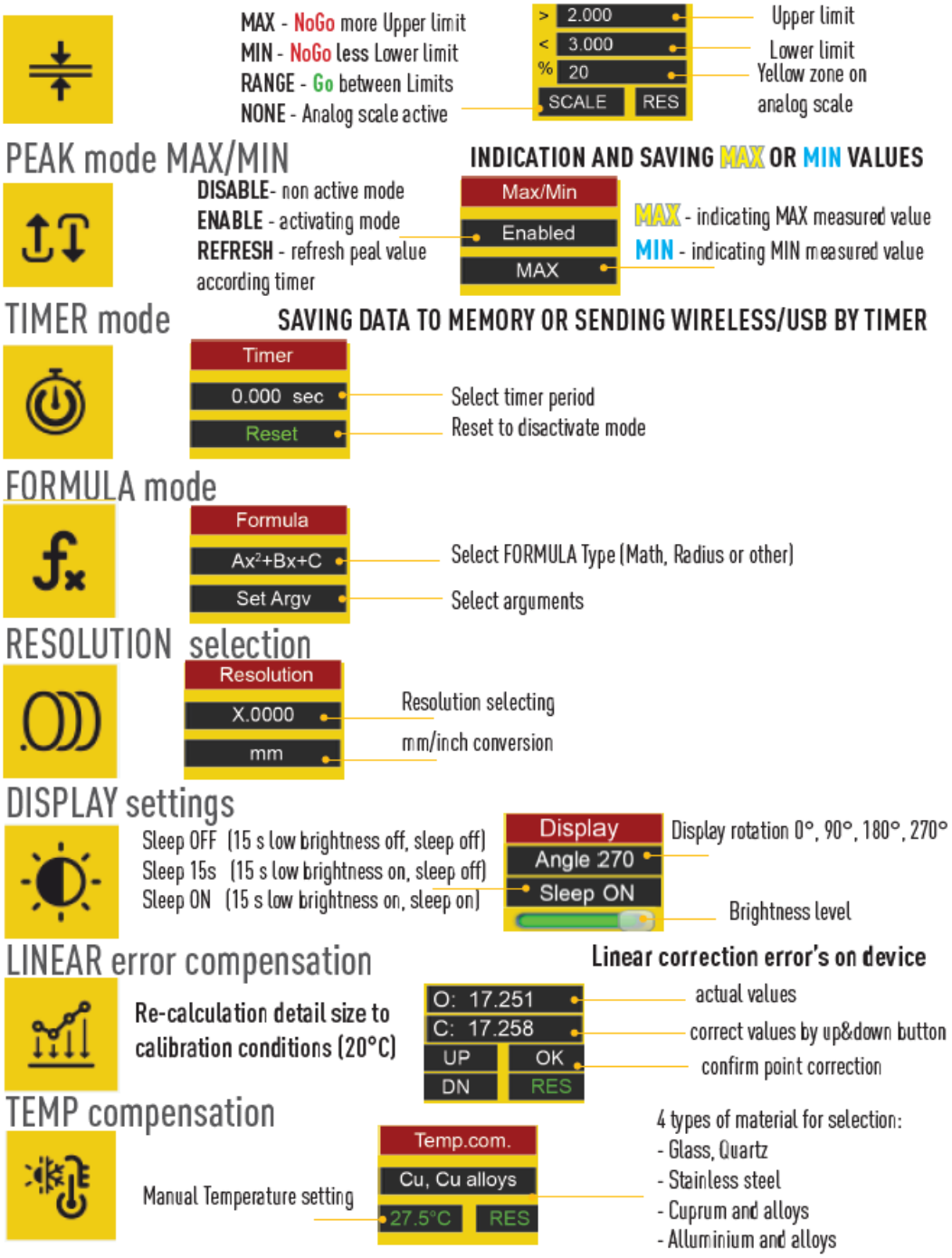
MAIN SCREEN



MAIN SCREEN on 2D mode



FUNCTIONS

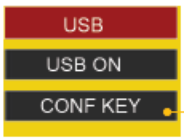


WIRELESS data transfer

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

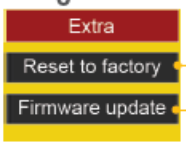


Connect USB cable to PC & Activate USB HID connection mode
Select setting of data transfer
Direct transfer data to any App in Windows, MacOS, Linux, Android devices
Configurating data transfer Dot/Comma and Tab/Arrow Down/CR+LF

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

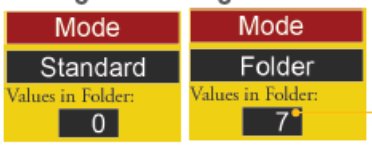


Push 10 times to RESET device to factory settings
Push 10 times to FIRMWARE UPDATE

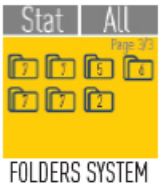
EXTRA

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

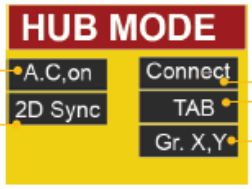
Device INFO

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

HUB connection

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

2D MODE



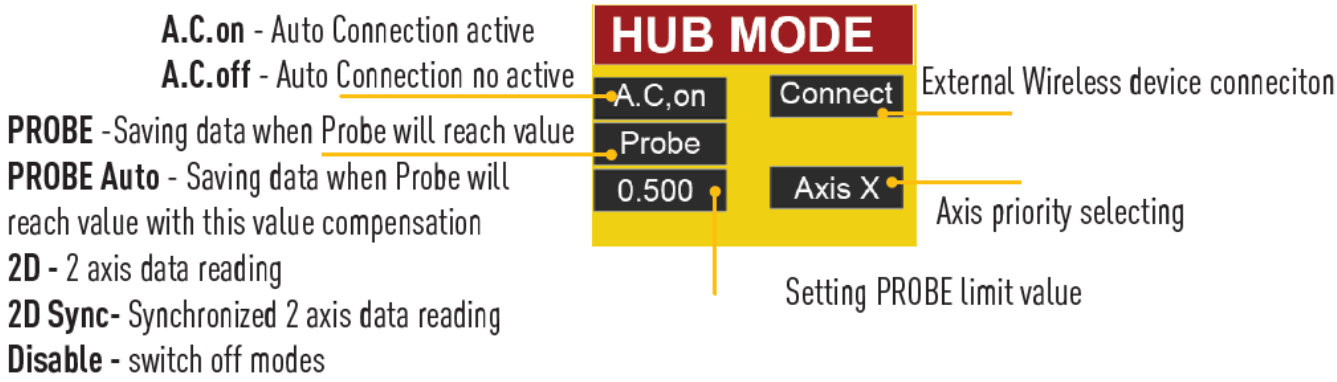
External Wireless device conneciton
Symbol between Axis
Graphic mode indication setting

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 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 the CONNECT button and start searching Slave devices (40s) 4.2 Push for the MAC address of the indicated slave device to start the connection. 4.3. If the MASTER device indicates SUCCESSFUL CONNECTION – you can start measurements, but If the MASTER device indicates CONNECTION ERROR – re-connect devices again (from step 1).

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 the CONNECT button and start searching Slave devices (the 40s) 4.2 Push for the MAC address of the indicated slave device to start the connection. 4.3. If the MASTER device indicates SUCCESSFULLCONNECTION – you can start measurements, but If the MASTER device indicates CONNECTION ERROR – re-connect devices again (from step 1).

VIDEO INSTRUCTION of 2D and PROBE MODE CONNECTION

INDUSTRY 4.0 INSTRUMENTS

Change without prior notice

MORE INFORMATION

MICROTECH

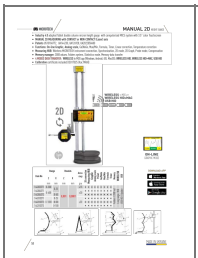
- **ADDRESS:** Innovative Measuring Instruments 61001, Kharkiv, Ukraine, str. Rustaveli, 39
- **tel.:** +38 (057) 739-03-50

- www.microtech.ua
- tool@microtech.ua

Frequently Asked Questions

- **Q: How do I update the device?**
  - A: To update the device, connect it to a computer with an internet connection and follow the on-screen prompts for updates.
- **Q: Can I download additional apps for this product?**
  - A: Yes, you can download the MDS app for enhanced functionality and data management.
- **Q: What is the origin of this product?**
  - A: This product is made in Ukraine.

Documents / Resources

	MICROTECH 2D Height Gauge [pdf] Instructions 144303371, 144306371, 144306372, 144310371, 144310372, 144310373, 2D Height Gauge, 2D, Height Gauge, Gauge

References

- User Manual