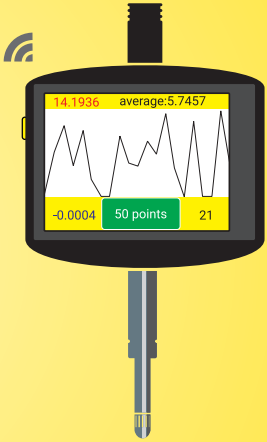
INNOVATIVE MEASURING INSTRUMENTS

MICROTECH
est. 1995

UKRAINE



LINK TO CATALOG

MICROTECH MICS INTERFACES OPERATION MANUAL

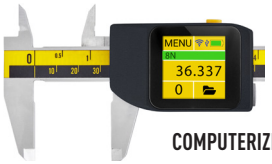
ISO 9001:2015

MICROTECH

MICROTECH INSTRUMENTS FUNCTIONS

TABLET LAB

TABLET

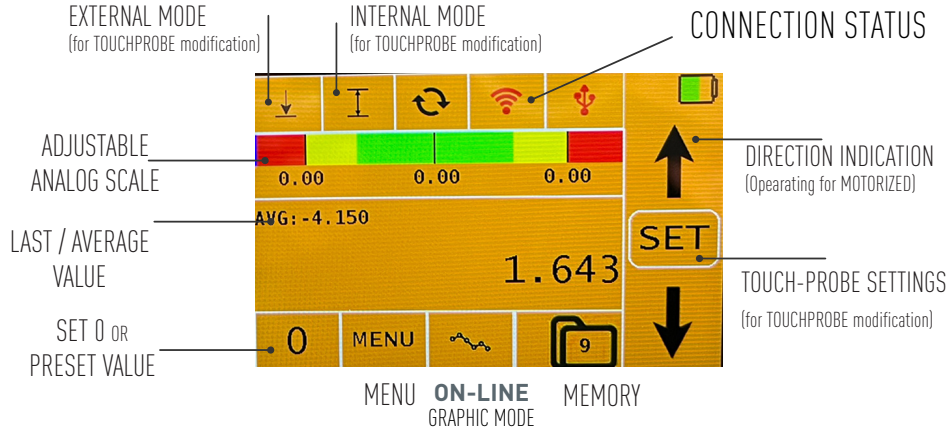


COMPUTERIZED

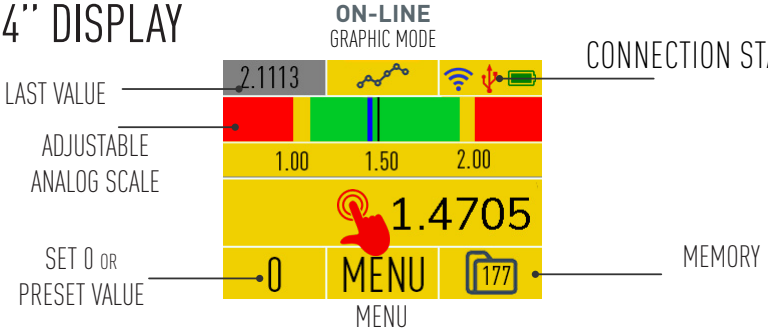
Functions		TABLET LAB	TABLET	COMPUTERIZED
Display		Color 3,5"	Color 2,4" / 2,0"	Color 1,54"
Resolution		480x320	320x240	240x240
Touchscreen		•	•	•
Charging socket			Micro-USB IP67	
Rechargeable battery		•	•	•
Battery status		•	•	•
Energy saving modes		•	•	•
Auto sleep on		•	•	•
Memory	val.	2000	2000	1000
	Folders	•	•	-
	Statistics	•	•	•
	Data transfer	•	•	•
Connection	Wireless	Long range to MDS app for Windows, Android, iOS, MacOS (Free & Pro version)		
	Wireless HID	HID connection direct to any app and OS (like keyboard) with format config		
	Wireless HID+MAC	HID connection direct to any app and OS (like keyboard) with MAC address		
	USB HID	HID USB connection direct to any app and OS (like keyboard) with format config		
HUB mode	2D master	•	•	
	2D slave	•	•	•
	Probe mode	•	•	
3D Probes operating	Manual mode	•	-	-
	Auto mode	•	-	-
Geometric measuring		•		
Motor-driven operation		option		
Direction visualisation (Height gauges)		•		
On-line Graphical mode		•	• (for 2.4" only)	-
Connection status		•	•	•
Preset manager		•	•	•
Adjustable Analog scale		•	•	-
Formula		•	•	•
Color Limits (Go/NoGo)		•	•	•
Peak (Min/Max)		•	•	•
Last value (HOLD)		•	•	•
Resolution selection		•	•	•
mm/inch selection		•	•	•
Formula		•	•	•
Linear correction		•	•	•
Temperature correction		•	•	-
Timer		•	•	•
Calibration date		•	•	•
Password manager		•	•	-
Firmware update (for distributors)		•	•	•

MAIN SCREEN

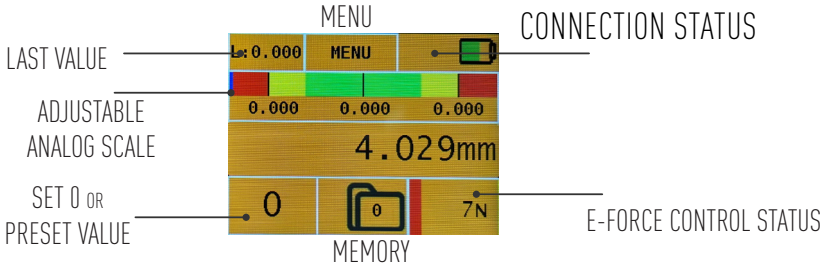
TABLET LAB 3.5" DISPLAY



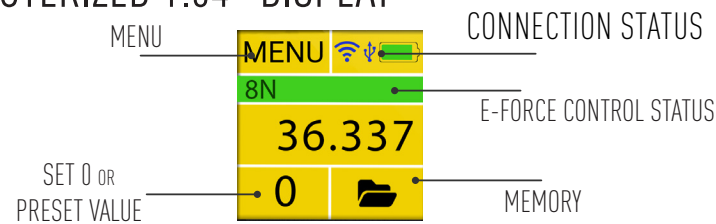
TABLET 2.4" DISPLAY



TABLET 2.0" DISPLAY WITH E-FORCE CONTROL



COMPUTERIZED 1.54" DISPLAY



FORCE CONTROL*

8N FORCE LOW

8N FORCE OK

8N FORCE TOO HIGH

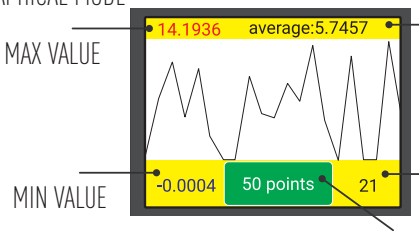
FORCE CONTROL SCALE
FORCE MENU ACTIVATING BY TOUCH

SELECT EXTERNAL FORCE IN RANGE 1-20N

DISABLE	INDICATE	AUTO	FORCE
DISABLE FORCE FUNCTION	COLOR FORCE STATUS INDICATION	AUTO DATA SAVING/ TRANSFER, WHEN FORCE OK	INDICATION ACTUAL FORCE VALUE

ON-LINE GRAPHIC**

- GRAPHIC CAN BE CHANGED ON-LINE (BY BUTTON PUSH OR BY TIMER)
- SWIPE TO GO OUT GRAPHICAL MODE



MAX VALUE

AVERAGE VALUE

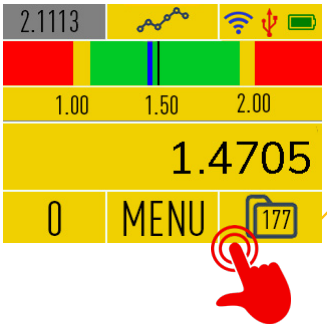
MIN VALUE

QTY OF VALUES

QTY OF VALUES ON SCREEN
(CAN BE 50, 100 OR 200 VALUES)

* FOR CALIPERS AND HEIGHT GAUGES WITH E-FORCE MODULE
** MODIFICATIONS WITH 2.4" AND 3.5" DISPLAYS

MEMORY

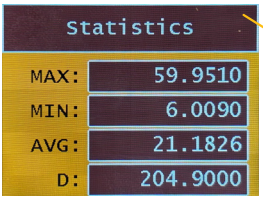


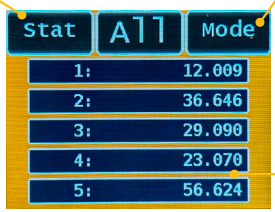
- MEMORY STATUS INDICATION
- TOUCH BUTTON TO VIEW MEMORY

STANDARD MODE
77 values in memory

FOLDERS MODE
4 folders added
in actual folder 2 from 5 values added

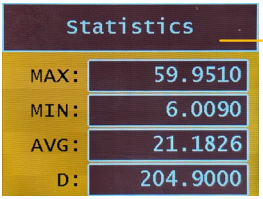
STANDARD MODE

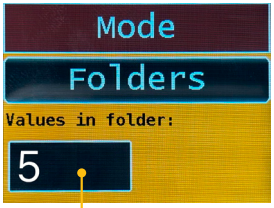




You can DELETE or SEND value or all values together or by WIRELESS or USB connection to Windows PC, Android or iOS

FOLDERS MODE*





select qty of values for each folder

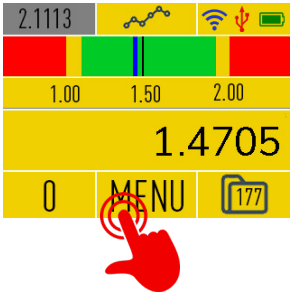
new folder is created automatically when the number of values in the folder reaches the specified value

You can DELETE or SEND value, folder or all folders by WIRELESS or USB connection to Windows PC, Android or iOS

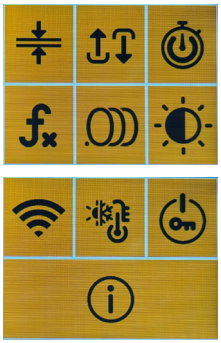
* ON MODIFICATIONS WITH 2.4" AND 3.5" DISPLAYS ONLY

MICROTECH

MAIN MENU

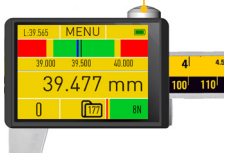


PUSH MENU BUTTON TO OPEN MAIN MENU



SWIPE BETWEEN MENU DISPLAYS

press the device button to exit to the main display



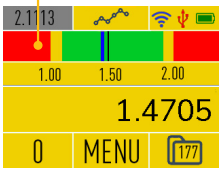
LIMITS mode GO/NOGO

Activate LIMITS mode setting in menu or on Analog scale* push on main screen

SCALE - Analog scale active

INDICATION LIMITS ON ANALOG SCALE*

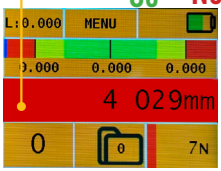
Go NoGo



MAX - NoGo more Upper limit
MIN - NoGo less Lower limit
RANGE - Go between Limits

COLOR INDICATION LIMITS ON DATA BAR

Go NoGo



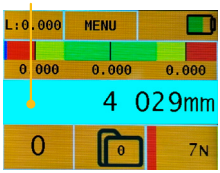
PEAK mode MAX/MIN/MODULE/RANGE

Activate PEAK mode setting in menu

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

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

COLOR INDICATION PEAK ON DATA BAR



* ON MODIFICATIONS WITH 2.4" AND 3.5" DISPLAYS ONLY

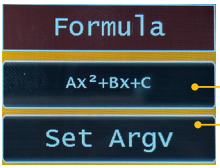
TIMER mode

Saving data to memory or sending data Wireless/USB by Timer

Select timer period

Reset to disactivate mode

FORMULA mode

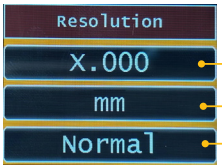


Select FORMULA Type* (Math, Preset, Radius or other)

Select arguments

*For Standard measurings, must be selected Fomula Ax^2+Bx+C B=1.

RESOLUTION selection



Resolution selecting

mm/inch conversion

Normal or Inverted measuring

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 rotation 0°, 90°, 180°, 270°

Touchscreen lock

Brightness level

TEMP compensation*

Recalculation size of detail (to Optimal 20 C temperature condition) depending on type of material and actual temperature

4 types of material for selection:
- Glass, Quartz
- Stainless steel
- Cuprum and alloys
- Alluminium and alloys

Manual Temperature setting

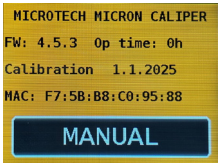
PASSWORD manager*

Activate Menu protection

Activate Memory protection

Password setting

Device INFO

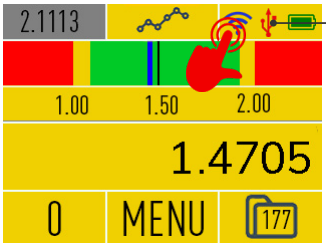


Information about device
- Firmware version
- Device operation time (in hours)
- MAC adress for WIRELESS connection
- Device manual QR code

* ON MODIFICATIONS WITH 2.4" AND 3.5" DISPLAYS ONLY

MICROTECH

DATA TRANSFER



CONNECTION STATUS

WIRELESS MDS CONNECTED

WIRELESS HID CONNECTED

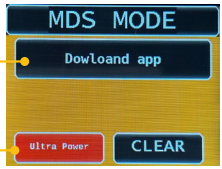
USB HID CONNECTED

Activate data transfer mode throw menu

WIRELESS MDS MODE

QR-Link to MDS App

Data transfer power



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

WIRELESS HID MODE

USB HID MODE

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

USB HID data transfer (like keyboard) direct to any customers app (use USB cable from set)

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

data transfer format visualization

MAC address format or OFF

last symbol Arr down/ CR+LF

Data transfer power

Dot or Comma on transfered value

language localization

HUB SLAVE mode

HUB SLAVE MODE activating to transfer data to MASTER device

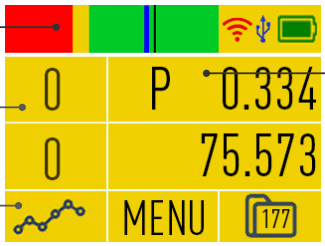
Activate HUB SLAVE mode in DATA TRANSFER menu

DATA TRANSFER

HUB MASTER mode*

HUB MASTER MODE activating to RECEIVING data from SLAVE device

Activate HUB MASTER mode in DATA TRANSFER menu



MAIN SCREEN on HUB MASTER mode

2D AND HUB MODE

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

2D MODE - 2 axis data reading

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

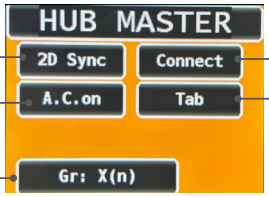
Connect SLAVE device

Axis priority selecting

2D Sync MODE - Synchronized 2 axis data reading

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

Graphic mode indication setting

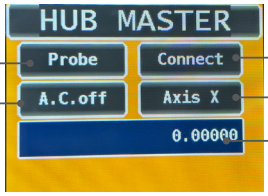


Connect SLAVE device

Symbol between Axis

PROBE MODE -Saving data on MASTER when Probe (SLAVE) will reach selected limit value

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



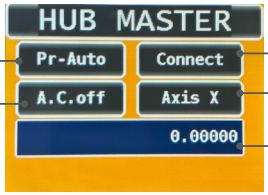
Connect SLAVE device

Axis priority selecting

Setting PROBE limit value

PROBE Auto MODE- Saving data on MASTER when Probe (SLAVE) will reach selected limit value with differnce compensation

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



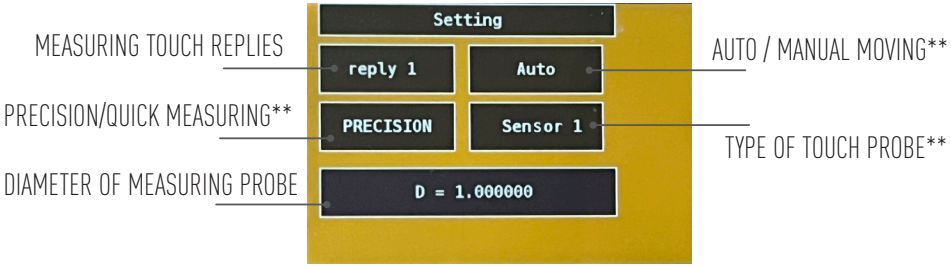
Connect SLAVE device

Axis priority selecting

Setting PROBE limit value

* ON MODIFICATIONS WITH 2.4" AND 3.5" DISPLAYS ONLY

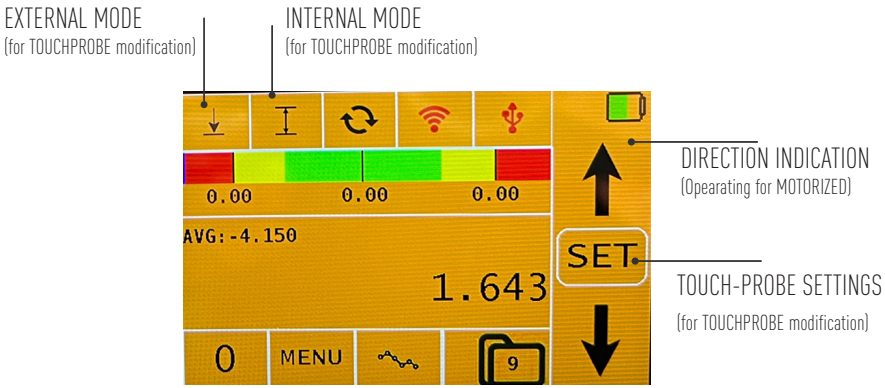
TOUCHPROBE GAUGES*



Height gauges with Touchprobe has two measuring modes:
- External mode
- Internal mode -for measuring inside holes or other internal sizes (internal dimension can be recalculating according measuring probes Diameters)

It's possible to select Touchprobe measuring replies to improve accuracy.

Motorized height gauges can operate in Auto mode, just by Direction button push.I



* ON TOUCHPROVE HEIGHT GAUGES ONLY
** ON MOTORIZED HEIGHT GAUGES 3.5" DISPLAYS ONLY

TROUBLESHOOTING

1. NOT CHARGING

- Check the USB cable (better to use origitnal USB cable from the set
- Try to reconnect throw high power charger 1A+ and leave for 30+ minutes

2. NON STABILITY CONNECTION

- Increase Data transfer power in device menu
- Use extension for USB-dongle and install USB-dongle in straignt view with instruments.

3. HOW TO SOLVE BLINKING SCREEN

Following these steps should resolve any blinking screen issues and ensure that your MICROTECH device works properly. Always remember to disconnect and remove the device from your Bluetooth settings before changing modes to avoid conflicts and ensure a smooth transition.

If your MICROTECH measuring device's screen starts blinking, it's likely because the Wireless modes were not switched correctly. This problem usually happens when the device is still remembered in an old mode by your computer or mobile device. To fix this, you need to remove the device from the Bluetooth settings before changing the mode.

Step-by-Step Solution
Make sure to disconnect and remove the MICROTECH device from your computer or mobile device's Bluetooth settings. Here's how to do it:
On a PC: Go to your Bluetooth settings, find the MICROTECH device, and select «Remove» or «Forget».
On an Android Phone: Open Settings, go to Bluetooth, find the MICROTECH device, and tap «Forget» or «Remove».
On an iPhone: Open Settings, go to Bluetooth, find the MICROTECH device, tap the info icon (i), and select «Forget This Device».

4. TOUCHSCREEN NO RESPOND

- Deactivate Touch OFF function in menu

5. PROBLEM NOT SOLVED

- If your problem not solved - contact with our service: admin@microtech.tools
- Pls write: Item No, Serial No, Photo of device info screen, problem description

MICROTECH

INDUSTRY 4.0 INSTRUMENTS

CE RoHS compliant

130+ PATENTS US, UA, WO


Bureau Veritas Certification

PSME "MICROTECH"

39, Rustaveli Str., Kharkiv, 61001, Ukraine

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of certification

Manufacturing, calibration and delivery of industrial tools.

Original cycle start date:	17 March 2005
Expiry date of previous cycle:	06 February 2023
Certification / Recertification Audit date:	03 February 2023
Certification / Recertification cycle start date:	20 February 2023

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **06 February 2026**

Certificate No. UA230829 Version: 0 Revision date: 20 February 2023

Chana Svyatlenko
Signed on behalf of BVCH SAS UK Branch

UKAS MANAGEMENT 0008

Certification body address: 4th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: 8th floor, 38, Illinska Reitarska Str., Kyiv, 01033, UKRAINE

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +380 44 390 19 90

1/1


NATIONAL ACCREDITATION AGENCY OF UKRAINE

NATIONAL ACCREDITATION BODY OF UKRAINE

ACCREDITATION CERTIFICATE

Registered on February 07, 2022
No. 40051
valid until February 06, 2027

Date of the Initial Accreditation: **February 07, 2017**

NATIONAL ACCREDITATION AGENCY OF UKRAINE
BY THIS CONFIRMS THE COMPETENCE OF

Calibration Laboratory of
PRIVATE SCIENTIFIC-PRODUCTION ENTERPRISE
«MICROTECH»

Address of the legal entity:
34 A Selianska Str., flat 54, Kharkiv, 61004

Address of the CAB:
39 Rustaveli Str., Kharkiv, 61001

3 0 2 9 1 6 8 2
(EDRPOU Code)

IN COMPLIANCE WITH THE REQUIREMENTS OF DSTU EN ISO/IEC 17025:2019 (EN ISO/IEC 17025:2017, IDT) / ISO/IEC 17025:2017, IDT) IN THE SCOPE OF:

calibration of equipment by types of measurement:
L – length; M – mass and related quantities.

The scope of accreditation is defined by the Annex to this Certificate.
The Annex is an integral part of this Certificate and consists of **08** pages.

Acting director Sergii POPYK

Translation dated 19.01.2022
Registered in the logbook under No. 1359-A

NAAU is a signatory to: 1) EA MLA in the scope of «Testing», «Calibration», «Product certification», «Certification of persons», «Management system certification», «Inspection» and «Medical Testing»; 2) ILAC MRA in the scope of «Testing», «Calibration», «Inspection» and «Medical Testing»; 3) IAF MLA in the scope of «Product certification», «Certification of persons», «Management system certification».

MICROTECH est. 1995
UKRAINE

Only innovative measuring instruments

61001, Kharkiv, Ukraine str. Rustaveli, 39

04080, Ukraine, Kyiv, Nizhneyurkovska str., 45a

www.microtech.ua

tool@microtech.ua

MANUFACTURING ISO9001:2015

CALIBRATION ISO17025:2017

Change without prior notice