



SUB-MICRON TABLET COMPUTERIZED INDICATOR

USER MANUAL



ISO17025:2017



ISO 9001:2015

www.microtech.ua

**MICROTECH**

SPECIFICATION

Item No	Range		Resolution	Accuracy	Hysteresis	Force	Protection	Display	Data output	
	mm	inch	mm	μm	μm	N				
120139135	0-12,5	0-0,5"	0,0001	±3,0	0,5	0,6-1	IP54	Color 2,4" touch-screen	WIRELESS+USB	
120139137				±2,0			IP54			
120139138				±1,6			IP54			
120139139				±1,2			IP54			
120139257	0-25,4	0-1"		±3,0		0.7-1.2	IP54			
120139258				±2,0			IP54			
120139259				±1,6			IP54			
120139508	0-50,8	0-2"		±3,0		1,2-2,2	IP54			
120139509				±2,2			IP54			
120139907	0-100	0-4"		±5,0		3.2-5.2	IP54			
120139908				±3,5			IP54			

TECHNICAL DATA

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

MAIN INFO

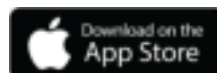
**SWITCH ON DEVICE** - button push (1 sec)**SWITCH OFF DEVICE** - button push (3 sec)/ auto switch off**DATA TRANSFER** - programming throw menu**BUILT-IN BATTERY** - rechargeable Li-Pol battery

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



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



FROM PAIRED DEVICE

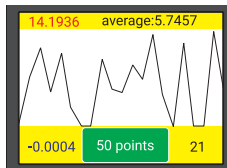


MICROTECH

MAIN SCREEN

**ON-LINE
GRAPHIC MODE**

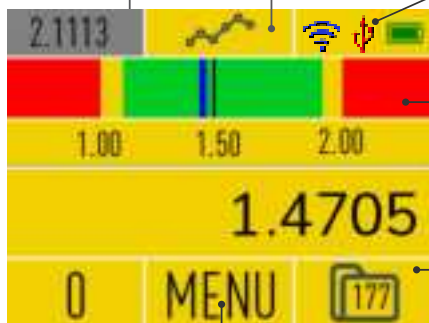
LAST VALUE



CONNECTION STATUS

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

ANALOG SCALE

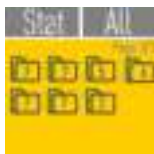
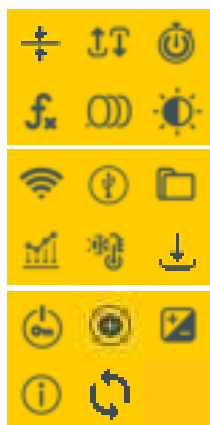


MEMORY

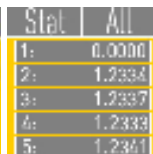
STANDARD or FOLDER system can be activated throw MEMORY menu



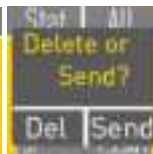
For save measuring data to internal device memory touch data area on screen or button push. You can view saved data or send by WIRELESS or USB connection to Windows PC, Android or iOS It's possible to use Standard or Folders memory modes



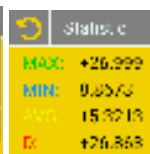
FOLDERS SYSTEM



MEMORY 2000 VAL.



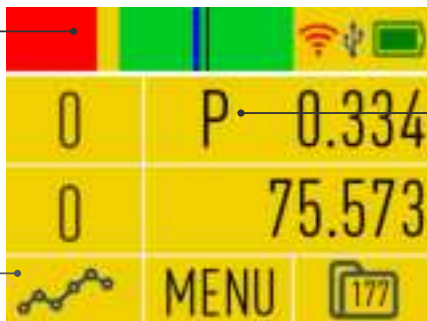
MEMORY EXPORT



STATISTIC

MAIN SCREEN on 2D mode

ANALOG SCALE
FOR PROBE 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

**ON-LINE
GRAPHIC MODE**

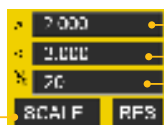


LIMITS mode GO/NOGO



MAX - NoGo more Upper limit
MIN - NoGo less Lower limit
RANGE - Go between Limits
SCALE - Analog scale active

COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo



Upper limit
 Lower limit
 Yellow zone on analog scale

PEAK mode MAX/MIN/MODULE/RANGE



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



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

TIMER mode



SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER



Select timer period
 Reset to deactivate mode

FORMULA mode



Select FORMULA Type (Math, Radius or other)
 Select arguments

RESOLUTION selection

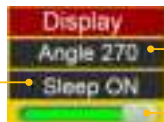


Resolution selecting
 mm/inch conversion

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)



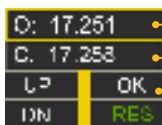
Display rotation 0°, 90°, 180°, 270°
 Brightness level

LINEAR error compensation



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

Linear correction error's on device



actual values
 correct values by up&down button
 confirm point correction

TEMP compensation



Manual Temperature setting



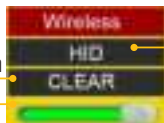
4 types of material for selection:
 - Glass, Quartz
 - Stainless steel
 - Cuprum and alloys
 - Aluminium and alloys



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 connecton

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 connecton

Symbol between Axis

Graphic mode indication setting

FUNCTIONS

LINK to app's



QR Link to MICROTECH web site page
with MDS Software download

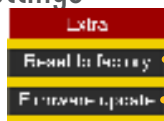
- Android, iOS, Windows versions
- Free and Pro versions
- Manuals



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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)

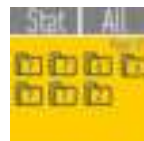
Coefficient setting (for distributor and calibration only)

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



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INDUSTRY 4.0 INSTRUMENTS



0,1µm



1µm

FORCE CONTROL
1-20N



0,1µm



0,1µm



1µm

MICROTECH

innovative measuring instruments

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