



SUB-MICRON BENCH TABLET MICROMETER

USER MANUAL



ISO17025:2017



ISO 9001:2015



SPECIFICATION

Item No	Range				Resol.	Accur.	Non-rotating	Measuring HUB	Graphic	Analog scale	Preset	Go/NoGo	Max/Min	Formula	Timer	Temp comp	Linear corr	Calibr date	Recharge	Memory	WIRELESS	USB	Display	
	Stand		Micrometer head																					
	mm	inch	mm	inch																				
110180278	0-25	0-1"	0-25	0-1"	0,0001	±1.0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
110180288	0-25	0-1"	0-25	0-1"		±1.3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
110180578	0-50	0-2"	0-50	0-2"		±1.5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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

TECHNICAL DATA



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

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



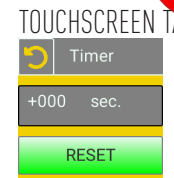
WIRELESS HID CONNECTION USB HID CONNECTION

NO DONGLE

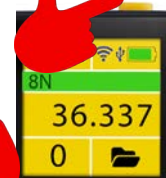
WIRELESS HID and USB HID data transfer (like keyboard) direct to any customers app and system

- TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE
- TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS
- TRANSFER DATA TO ANY BROWSE OR APP

7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



BY TIMER



FROM MEMORY



IN MDS APP



MAIN SCREEN

ON-LINE GRAPHIC MODE

LAST VALUE

2.1113

1.00 1.50 2.00

1.4705

0 MENU 177

CONNECTION STATUS

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

ANALOG SCALE

1.00 1.50 2.00

MEMORY

STANDARD or FOLDER system can be activated through 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

Stat	All
7	7
5	6
7	2

MEMORY 2000 VAL.

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

MEMORY EXPORT

Del Send

STATISTIC

MAX: +26.999

MIN: 8.8673

AVG: +5.3213

D: +26.863

FUNCTIONS

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

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 - indicating MAX measured value

MIN - indicating MIN measured value

TIMER mode

Timer

0.000 sec

Reset

SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

Select timer period

Reset to deactivate mode

FORMULA mode

Formula

Ax²+Bx+C

Set Argv

Select FORMULA Type (Math, Radius or other)

Select arguments

RESOLUTION selection

Resolution

X.0000

mm

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

Angle 270

Sleep ON

Brightness level

LINEAR error compensation

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

Linear correction error's on device

O: 17.251

C: 17.258

UP OK

DN RES

actual values

correct values by up&down button

confirm point correction

TEMP compensation

Manual Temperature setting

27.5°C

RES

4 types of material for selection:

- Glass, Quartz
- Stainless steel
- Cuprum and alloys
- Aluminium and alloys

MAIN SCREEN on 2D mode

ANALOG SCALE FOR PROBE MODE

0

0

ON-LINE GRAPHIC MODE

2D AND HUB MODE

P 0.334

0 75.573

MENU 177

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

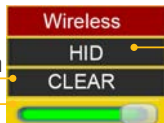
2D Sync - Synchronized 2 axis data reading

FUNCTIONS

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



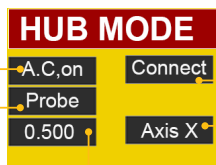
Connect USB cable to PC & Activate USB HID connection mode
Select setting of data transfer
Direct transfer data to any App in Windows, MacOS, Linux, Android devices
Configuring data transfer Dot/Comma and Tab/Arrow Down/CR+LF

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



External Wireless device connection

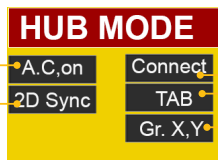
Axis priority selecting

Setting PROBE limit value

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



External Wireless device connection

Symbol between Axis

Graphic mode indication setting

2D MODE

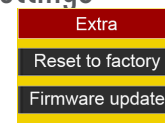
FUNCTIONS

LINK to app's



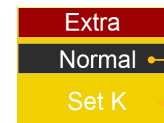
QR Link to MICROTECH web site page with MDS Software download
- Android, iOS, Windows versions
- Free and Pro versions
- Manuals

RESET to Factory settings



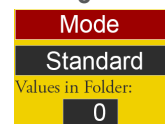
Push 10 times to RESET device to factory settings
Push 10 times to FIRMWARE UPDATE

EXTRA



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

MEMORY manager setting

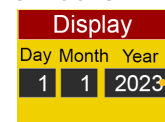


Activating STANDARD or FOLDER SYSTEM

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



MICROTECH

INDUSTRY 4.0 INSTRUMENTS



0,1µm



1µm

FORCE CONTROL
1-20N



0,1µm



0,1µm



1µm

MICROTECH

innovative measuring instruments

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