

UKRAINE



MICROTECH INSTRUMENTS CONNECTION BOOK





Functions		COMPUTERIZED			DIGITAL		
		TABLET LAB	TABLET	COMPUTERIZED	E-ink	WIRELESS	USB
Display		Color 3,5"	Color 2,4"	Color 1,54''	Mono 2,13''	Digita	l
Resolution		480x320	320x240	240x240	250x122		
	Touchscreen	•	•	•	•		
Cł	narging socket		Ν	1icro-USB IP67			
Rech	argeable battery	•	•	•	•		
B	Battery status	•	•	•	•		
Ener	gy saving modes				•	•	•
ļ	Auto sleep on	•	•	•	•	•	•
	val.	2000	2000	2000	1000		
	Folders	•	•	•			
Memory	Statistics	•	•	•	•		
	Data transfer	•	•	•	•		
	Wireless	l ona r	ange to MDS an	n for Windows Android iO	IS MacOS (Free & Pro v	ersion)	
	Wireless HID	HID	connection direc	t to any ann and OS (like)	kevboard) with format c	onfia	
Connection	Wireless HID+MAC	HID	connection direc	ct to any app and OS (like	keyboard) with MAC add	tress	
	USB HID	HID USB connect	ion direct to any	app and OS (like keyboar	d) with format config		HID USB
	Modbus/PLC	option	option		-,		
	2D master	Wireless Sync	like Master				
HUB mode	2D slave	,	Wireless	Sync like Slave device			
	Probe mode	Wireless Sync w	ith ext Probes				
3D Probes	Manual mode	•					
operating	Auto mode	•					
Geor	netric measuring	•					
Motor	r-driven operation	option					
Ex	ternal iovstick	option					
Cor	nnection status	•	•	•	•		
001	Preset	Preset	nananer with nu	ick activating	•	ontion	ontion
Adjust	tahla Analon scala		nunuyor witii qu	ion dourdding		option	υμαυτι
Aujusi	Formula	•			•		
Lie	nite (Co/NoCo)	•		•			
LII	nits (00/1000)	•					
PE	Eak (MIII/Max)	•	•	•	•		
Last value (HOLD)		•	•	•	•		option
Resolution selection		•	•	•	•		
mm/inch selection		•	•	•	•	•	•
Linear correction		•	•	•	•		
Temperature correction		•	•	•			
Timer		•	•	•	•		
Ca	alibration date	•	•	•	•		
Pas	sword manager	•	•	•			
l	lser manager	•					
Fir	rmware update	•	•	•	•		

DATA TRANSFER POSSIBILITIES

DIGITAL WIRELESS INSTRUMENTS

3 DATA TRANSFER MODES:

- WIRELESS data to MDS app (Windows, Android, MacOS, iOS)
- WIRELESS HID to any app and OS
- WIRELESS HID+MAC to any app and OS (with MAC address)



SET



DATA TRANSFER POSSIBILITIES

COMPUTERIZED INSTRUMENTS



5 DATA TRANSFER MODES:

- WIRELESS data to MDS app (Windows, Android, MacOS, iOS)
- WIRELESS HID to any app and OS (dot/comma/symbols config)
- WIRELESS HID+MAC to any app and OS (with MAC address)
- USB HID to any app and OS (dot/comma/symbols config)
- HUB (2D, Probe) synchronization (Slave device)

EXTRA FUNCTIONS: DATA TRANSFER from MEMORY, FOLDERS, TIMER

TABLET INSTRUMENTS

E-INK INSTRUMENTS



3 DATA TRANSFER MODES:

- WIRELESS data to MDS app (Windows, Android, MacOS, iOS)
- WIRELESS HID to any app and OS (DOT/COMMA; SYMBOLS config)
- USB HID to any app and OS (dot/comma/symbols config)
- **EXTRA FUNCTIONS: DATA TRANSFER from MEMORY, by TIMER**

CONNECTION STATUS INDICATION

? WIRELESS CONNECTED



WIRELESS HID





6 DATA TRANSFER MODES:

CONTACT US FOR DEVELOP CUSTOM SOLUTIONS



CONNECTION STATUS INDICATION



WIRELESS DISCONNECTED

WIRELESS CONNECTED

WIRELESS HID CONNECTED

USB HID DISCONNECTED

USB HID CONNECTED

• WIRELESS data to MDS app (Windows, Android, MacOS, iOS) • WIRELESS HID to any app and OS (dot/comma/symbols config) • WIRELESS HID+MAC to any app and OS (with MAC address) • USB HID to any app and OS (dot/comma/symbols config) • HUB (2D, Probe)synchronization (Slave device) • HUB (2D, Probe) synchronization (Master device) **EXTRA FUNCTIONS: DATA TRANSFER from MEMORY, FOLDERS, GRAPHIC, SYNCHRONIZED DEVICE, TIMER**

MDS IOS FUNCTIONS



MUS for IUS	
	299100060
Platform	iOS
Max. instruments	8
mm/inch conversion	+
Max Distance, m	up to 50m
Foot-Switch connection	-
Display value	+
Go/NoGo functions	+
Graphical mode	+
Timer	+
Measuring history	+
Save data to csv	+
Save graph	+
User manager	+
Device battery status indication	+
Voice mode	+
Multilanguage	English, Ukrainian, Russian

MDS IOS INSTALLATION COS

APP INSTALLATION

Install the latest MDS App from App Store. Standard version (2 connections) for FREE. PRO version of MDS_app for iOS can be order throw App



APP ACCESS

Confirm application access to Bluetooth module of Smartphone.

Make sure that Bluetooth is switched on (App request it to receiving data from Wireless and Computerized MICROTECH instruments



INSTRUMENTS CONNECTION TO MDS APP

COMPUTERIZED INSTRUMENTS TABLET INSTRUMENTS

• Before starting connection or searching on MDS app Select WIRELESS ON mode on Computerized or Tablet instrument in connection menu

• Select optional Connection Power for better stability and connection distance

E-INK INSTRUMENTS

• Before starting connection and searching on MDS app Select WIRELESS mode on E-ink instrument in connection menu • MENU+DATA button 2sec - Data transfer setting Wireless, Wireless ON -

WIRELESS data transfer to MDS App

DIGITAL WIRELESS INSTRUMENTS

• Before starting the connection, you should start the search in the MDS app and select the WIRELESS mode in the MDS app using the DATA button according to the device manual. STANDARD MODE

- non stop data transfer 4 times/sec
- CR2032 battery works in non stop data transfer up to 100h **ECONOMY MODE**
- data transfer only by Wireless button press
- CR2032 battery works in this mode up to 6 months





MICROTECH V



AVG: -20.961



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Add MICROTECH instruments to **DEVICES** list:

- Switch on the MICROTECH instrument.
- Activate Wireless mode on instrument. - Open DEVICES menu in MDS App and
- **TAP SEARCH button**
- Wireless devices around the
- Smartphone will be displayed.
- Find desired device with MICROTECH
- name and + button in app to add it.
- You can add any qty of instruments to Device list.

Start SESSION:

- Select one of available devices (added to devices list before)
- For using Wireless instruments (non Computerized electronics) recommended to select «Energy saving mode».
- Don't use **«Energy saving mode**» with Computerized instruments
- In FREE version you can use up to 2 instruments in a session at the same time.
- In PRO version you can use up to 8 instruments in a session at the same time.



data from connected instruments. In Standard mode (data transferring non-stop 4 times/sec) for saving value: - press the button or tap Touchscreen on

- instruments
- tap to actual value area on MDS App
- save values by Timer on App or
- instrument
- receive values from internal memory of instruments

In Energy saving mode for saving

values:

- Press Wireless button on instrument

INSTRUMENTS CONNECTION COS









GRAPH AND DATA MODE

Tap Graph button to activate the Graphical mode.

- view graph

al 🗢 🖻

- export graph
- view and export actual data



SETTINGS:

Use SETTINGS menu to select Language, Units (Metric or inch system), TTS settings (Voice mode), Display rotation, Backlight, etc.

14:05	al 🗢 🗈
Kore Settings	
UNITS	
Millimeters	~
Inches	
TTS enabled	0
Vibration	0
Sound	
Sound	
Display is always on	
SCREEN ORIENTATION	
Default	~
Portrait	
Landscape	
	8% •••
Session History Devices	Users Hore

MICROTECH	\searrow
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HISTORY

You can save current SESSION to HISTORY. All saved sessions and values in HISTORY can be viewed and exported.

14:05		al 🗢 🗈
Edit	History	
Sergii Serial No. Mode: Started: Finished:	: N/A Default 14:04:10 19.07.2021 not finished	
Sergii Serial No. Mode: Started: Finished:	: N/A Default 11:53:57 29.06.2021 11:54:09 29.06.2021	
Sergii Serial No. Mode: Started: Finished:	: N/A Default 13:30:29 17.05.2021 13:45:52 17.05.2021	
Sergii Serial No. Mode: Started: Finished:	: N/A Default 07:38:50 12.05.2021 07:39:43 12.05.2021	
Sergii Serial No. Mode: Started: Finished:	: N/A Default 14:02:01 05.04.2021 14:02:48 05.04.2021	
Sergii Serial No.	: N/A	
Gession	History Devices Us	B 000 Ers More

ACCOUNTS:

You can create users account by account menu. Info about Users displaying in measuring History. Measuring history can be associate with Users.





MDS for Andr	oid
	299100050
Platform	Android 6,0 +
Max. instruments	8
Energy saving mode	+
Max Distance, m	up to 50m
mm/inch conversion	+
Go/NoGo functions	+
Graphical mode	+
Reading on Timer	+
Measuring history	+
Save data to xls	+
Save data to csv	+
Save graph	+
User manager	+
Device battery status indication	+
Quality control mode	+
Import & processing details draws, photos	+
Voice mode	+
Multilanguage	English, Spanish, French, Italian, Ukrainian, Russian, Chinese, Korean, Turkish, Czech, Poland, Hungarian, etc.

MDS ANDROID FUNCTIONS in android





androi

MDS ANDROID INSTALLATION



APP INSTALLATION

Install the latest MDS App from GooglePlay. Standard version (2 connections) for FREE. PRO version of MDS_app for iOS can be order throw GooglePlay.



APP ACCESS

Confirm application access to Bluetooth module of Smartphone. Make sure that Bluetooth and Location are turned on (App request it to receiving data from Wireless and Computerized **MICROTECH** instruments)



INSTRUMENTS CONNECTION in android

COMPUTERIZED INSTRUMENTS TABLET INSTRUMENTS

- Before starting connection or searching on MDS app Select WIRELESS ON mode on Computerized or Tablet instrument in connection menu
- Select optional Connection Power for better stability and connection distance

E-INK INSTRUMENTS

• Before starting connection and searching on MDS app Select WIRELESS mode on E-ink instrument in connection menu • MENU+DATA button 2sec - Data transfer setting Wireless, Wireless ON -

WIRELESS data transfer to MDS App

DIGITAL WIRELESS INSTRUMENTS

- Before starting the connection, you should start the search in the MDS app and select the WIRELESS mode in the MDS app using the DATA button according to the device manual. STANDARD MODE
- non stop data transfer 4 times/sec
- CR2032 battery works in non stop data transfer up to 100h **ECONOMY MODE**
- data transfer only by Wireless button press
- CR2032 battery works in this mode up to 6 months









Add MICROTECH instruments to DEVICES list:

- Switch on the MICROTECH instrument. Activate Wireless mode on instrument.
- Open MANAGE DEVICES menu in MDS App and Press SEARCH button
- Wireless devices around the Tablet or Smartphone will be displayed.

If you can't find any Wireless device around - check App setting (Bluetooth and Location must be switch on)

- Find desired device with MICROTECH name and MAC adress and touch + button in app to add it.

- You can add any qty of instruments to Device list.



Start SESSION:

- Select one of available devices (added to devices list before, if necessery press + to add more)
- For using Wireless instruments (non Computerized electronics) recommended to select «Energy saving mode».
- Don't use «Energy saving mode» with Computerized instruments
- Radius and Formula mode can be used for special measurings
- In FREE version you can use up to 2 instruments in a session at the same time.
- In PRO version you can use up to 8 instruments in a session at the same time.



MEASURING PROCESS

MEASURING PROCESS AND DATA SAVING

Whe	en SESS	ION started you can receive (data from connected i	nstruments.	
In M	In WIDEL ESS Standard made (data transforming non-stan / times/cas) for soving value				
111 V	in wikeless standard mode (data transferring non-stop 4 times/sec) for saving value:				
- pr	- press the button or tap Touchscreen on instruments				
+0	n to opti				
- la	ριο άζιι	ial value area on MDS App			
- sa	ve value	s by Timer on App or instrur	nent		
00	····				
- re	ceive va	lues from internal memory o	finstruments		
In E	norave	aving mode for soving volue	C .		
	ilergy 5	aving mode for saving value	5.		
- Pr	ess Wire	eless button on instrument			
				×. 93% 💼	
	Activate	Graphical mode –			
,		Export :	saved values to csv	Read on timer	Synchronize reading
			_	.5973	values and activate
				(C3:48:FC:0C:FB:85)	values and activate
				#10: -1.5872 /G:0.9620 MAX:2.7823	Timer
14:34 🖬	1		5 7% II		
		← FINISH SESSION GRAPH EXPORT	÷		
		Started: 2021-07-13 14:32:21.		14:33 🖬	©. 93%
		Caliper 3		← Acquisition settings	
		10 0300	240	Leu volue beunden:	
Default	user	^ 10.3333	0	10	
		■ 81% #11: 155.87/JD		Minh value boundary:	
<u>e</u>	Accounts	MIN: 0.0000 AVG: 45.5650 MAX: 155.870	0	20	
	Session	#2 Time 00:00:20 Value 5.7950		DETDIES	
		#3 Time 00:00:21 Value 9 6/00 #4 Time 00:00:23 Value 15 1400	Actual display the	1	
-	Quality control	#5 Time 00:00:24 Value 18:7099	surrent values	MEASUREMENT DESCRIPTION	
商	History	#6 Time 00:00:25 Value 27 3550		Add selected measurement description here	
		#7 Time 00:00:26 Value 39.3550		nau oneeree measurement accomption nere	
п	Manage devices	#8 Time 00:00:27 Value 51 3950			
-		#10 Time 00:00:31 Value 102.8550			
~	Sattinge	#11 Time 00:00:40 Value 155.8700			
-V*	occango				
(i)	About		Savad value	26	
			Saveu value	25	

GRAPH MODE

Tap Graph button to activate Graphical mode.

- possbile to view online values updates on Graph
- or view the saved values from SESSION window
- graph settings gives possibility to view legend and time axis on graph.
- export graphic in png format

HISTORY

You can save current SESSION to HISTORY. All saved sessions and values in HISTORY can be viewed and exported.

14:37	2		%-93% i
		← History	
	2	Mode	•
Defaul	tuser	USER	
<u>e</u>	Accounts	Default user	
\equiv	Session	HISTORY	
-	Quality control	Default user Mode: Measurement session	
	History	Started: 2021-07-13 14:35:21 Finished: 2021-07-13 14:35:44	Remove
0	Manage devices	Default user Mode: Measurement session Started: 2021-07-13 14:35:52 Finished: 2021-07-13 14:37:09	Export
٢	Settings		
1	About		

\backslash		
	MICROTECH	\bigvee -







SETTINGS:

Use SETTINGS menu to select Language, Units (Metric/ inch system), TTS settings (Voice mode), Display rotation, Backlight, etc.



ACCOUNTS:

You can create users account by account menu. Info about Users displaying in measuring History. Measuring history can be associate with Users.

2		%-94%∎	4:28 🖾
	← Accounts		← Add user
CON	IPANY		Jser photo
			Name
			Division
	SELECT CLOUD USER TO MANAGE (COMPANY	Vote
s			
	USERS		
	Lab1	۲	
		-	CANCEL

MICROTECH	\bigvee	_
	v	

APP INSTALLATION

Download & Install the latest MDS App for Windows from www.microtech.ua or order PRO and STANDARD version from nearest MICROTECH distributor



ACCESORIES FOR MDS APPLICATION

ltem No	Туре
299100550	MDS 5.0 STANDARD app for Windows
299100570	MDS 5.0 PRO app for Windows
299190001	USB-Dongle for Windows
299190004	1m Cable extension for USB-Dongle
299190000	USB-Footswitch for Windows
299190009	Wireless / USB-Footswitch for Windows





FUNCTIONS

MICROTECH

Micro	MicrotechData for Windows				
	FREE	STANDARD	PRO		
	299100530	299100550	299100570		
Platform		Windows 7, 8, 10			
Max. instruments	1	4	32		
USB-dongles (max qty)	1	1	8		
Standard/Energy saving mode	+	+	+		
Max Distance, m		up to 50m			
Autoconnection	+	+	+		
Filtering non MICROTECH					
devices	+	+	+		
Data reading Synchronizing	-	+	+		
User manager	+	+	+		
Foot-Switch connection	+	+	+		
mm/inch conversion	+	+	+		
Go/NoGo functions	+	+	+		
Graphical mode	-	+	+		
2D-Graphical mode	-	+	+		
Timer	+	+	+		
Resolution selection	+	+	+		
Export to external programs	+	+	+		
Save data to csv	+	+	+		
Save data to xls*	+	+	+		
Save data to pdf*	+	+	+		
Save graph png	-	+	+		
Multilanguage	Українська, Ру Española, Čes	сский, English, Deut ký, Türk, Polski, Fran	sch, Italiana, cais, Maqyar		
Supplying	microtech.ua	USB-drive	USB-drive		

Microtech Data System				- 8 ×
File Data Information				
Available devices			Evergy saving mode	🗌 Ado enchronization 🛛 😌
<u> </u>	CONCORCES CONTRACTION			
Atached devices				MICROTECH
Winkess digital micrometer	y Weekea digtal nicosmeter 🖉 🖉	Tileées ágtá niconeter 🖉 🖸	Tilmina digtal nicroneter	e 0
8 🔲 1.5660mm	8 9 1.4050mm	8 🖌 3.8980mm	8 9 1.7512	mm
00.10.0+57-9.78 Lest value: 1.7911	COSTREEMENTA Last value: 15525	00 69 TO 24 DC CO Lest volve: 3 6010	campanyana Latvake: 17021	
Datatable A	Detatable A	Deta table A	Data table	
Votor x <th>Water Concernence <th< th=""><th>Value C C C E Taxitar Value Read Usta Tare N E 2556 mm M42 Tare N 7 2502 mm M42 Tare N 8 4/2025 mm M42 Tare N</th><th>Nation Nation Read Diffe 2 > 15355 mn 3 > 15856 mn 4 > 21329 mn 5 > 21329 mn 5 > 21329 mn 5 > 21329 mn 5 > 21329 mn</th><th>300</th></th<></th>	Water Concernence Concernence <th< th=""><th>Value C C C E Taxitar Value Read Usta Tare N E 2556 mm M42 Tare N 7 2502 mm M42 Tare N 8 4/2025 mm M42 Tare N</th><th>Nation Nation Read Diffe 2 > 15355 mn 3 > 15856 mn 4 > 21329 mn 5 > 21329 mn 5 > 21329 mn 5 > 21329 mn 5 > 21329 mn</th><th>300</th></th<>	Value C C C E Taxitar Value Read Usta Tare N E 2556 mm M42 Tare N 7 2502 mm M42 Tare N 8 4/2025 mm M42 Tare N	Nation Nation Read Diffe 2 > 15355 mn 3 > 15856 mn 4 > 21329 mn 5 > 21329 mn 5 > 21329 mn 5 > 21329 mn 5 > 21329 mn	300
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				5 6 Conception

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1	8/17/2021	12:43 PM				0.1														
2						FIE L	ata info	mato	on											_
3	MAC-address:	D8:1A:23:87:84:89				Available d	levices						06	iergy i	saving mode		Auto synchron	nization		e
4	Device name:						70.22.04	09.3	e .er		59.0	CR.AD. 10	.12.07		SD-26-28-80-8	2.49	- 57	CC.0C.0	0.71.04	- ^
5	Serial number:						-52:0			12	-3500				-550		S -334	6		
6	Operator name:										Wreis	ess ógital m	cromete		•					4 1
7	MIN:	0.1162					63:47:EF:	F1:70	DE	6	72:1	IC:78:40	2E-83		EAF3.83.00.3	8:A1	ED	13.0FJ	E-4C-A	ã.
8	AVG:	2.6062				2	-80db			10	-7300			112	-39db Windows divide mine		S. 40	Þ		
9	MAX:	7.75													intern cyla no					· ·
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11	1	12:42:30.738	0.1162	mm		Wreles	is digital mici	omete	r				0	a 1		_				~
12	2	12:42:36.632	0.9785	mm					_			~								
13	3	12:42:55.280	1.2654	mm		1 Xa			/	15	5()(Im	m							
14	4	12:42:57.976	1.9461	mm			-													
15	5	12:42:59.904	2.3908	mm		D8:1AC	3 87 84 89	Last v	alue	: 7.75										
16	6	12:43:1.428	2.766	mm		Data	table						\$							
17	7	12:43:5.830	0.8704	mm		Value					<u> </u>	x: 6	3							
18	8	12:43:14.295	5.3723	mm			Marke	104		Ore A	Line.		-							
19	9	12:43:21.32	7.75	mm			NUMBER	Val	-	nesue	Units	ine								
20							4	1	ř	1.9461	nn	1242								
21							5	2		2.3908	mm	12:42								
22							6	2		2.7660	mm	12:43								
23							7	0	~	0.8704	mm	12:43								
24							8	5		5.3723	m	12:43								
25							9	7		7 7500	-	12:43								
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29											,									~
20						+ USB: 1	CPrivate	Rese	arch	and Pro	duction	n Enterpris	se "Mic	croted	ch". All rights reserved	L				













To connect instruments to PC, it is necessary to use USB-dongle on PC (Item 299190001) Connect USB -dongle to PC

- -Check driver status on device manager
- -In MDS software you can check how many USB-Dongle is active.

When USB-Dongle connected - all wireless devices around you will be displayed automatically



INSTRUMENT CONNECTION SWINDOWS **COMPUTERIZED INSTRUMENTS TABLET INSTRUMENTS**

• Before starting connection or searching on MDS app Select WIRELESS ON mode on Computerized or Tablet instrument in connection menu

• Select optional Connection Power for better stability and connection distance

In WIRELESS ON mode data transfer can be executed via pressing the button or use touchscreen on Computerized device, by Timer on Computerized device, by clicking on actual value in Windows app, by Timer in Windows App, by Footswitch in Windows app.

- The device will appear on «Available devices» area
- Move selected instrument from «Available devices» area to «Activated devices» area.
- Activate Auto Synchronization to automatic activating switched on MICROTECH devices
- Select Filtering device mode in Connection menu to view only MICROTECH instruments.





<i>№ 0.6247mm</i>	n 🖉 🍯 56.3550mi	7			
C9:E9:3E:9C:D5:0E Last value: N/A	D5:38:E2:F8:8D:87 Last value: N/A		Settings		×
Data table ×	Data table		General Connection Value broadc	ast Extra	
Settings 🔹	Settings		Connection		
			Filter devices		
Select Filtering device mod	e in Connection menu to	· · · · ·	Interval:	64 🚖 96	÷
view only MICROTECH instr	uments in Avialable device	es	Timeout	100	÷
area			Latency	0	÷
			Scan		
			Interval	50	÷
Microtech Data Suctam			Window	50	-
File Data Information	K				
Available devices				To defaults	,
DA:A7:37:AC:6D:B6	D5:38:E2:F8:8D:87 -59db C9:E9:3E:9C:D5:0E				
Precision wireless indicator	Precision wireless caliper Precision wireless indicator		Cancel		ок

CONTACT US FOR DEVELOP CUSTOM SOLUTIONS





Activate Auto synchronization

		-	
1	Energy saving mode	Auto synchronization	0
:4B:FC:0C:FB:85 2db			
ecision wireless indicator			
			ECH

DIGITAL WIRELESS INSTRUMENTS

Before starting connection or searching on MDS app press and hold the data transmission button for 5 Seconds. By default, digital wireless devices start in WIRELESS mode, which is indicated by a constantly blinking wireless icon on the display. When you hold the button for 5 Seconds for the first time, WIRELESS mode is activated.



- The device will appear on «Available devices» area
- Move selected instrument from «Available devices» area to «Activated devices» area.
- Activate Auto Synchronization to automatic activating switched on MICROTECH devices
- Select Filtering device mode in Connection menu to view only MICROTECH instruments.



INSTRUMENT CONNECTION **E-INK INSTRUMENTS**

Before starting connection or searching on MDS app hold MENU+DATA button for 2sec and sellect WIRELESS ON mode. Wireless mode indicating by $\widehat{\gamma}$ icon on a top right coner.



- The device will appear on «Available devices» area
- Move selected instrument from «Available devices» area to «Activated devices» area.
- Activate Auto Synchronization to automatic activating switched on MICROTECH devices
- Select Filtering device mode in Connection menu to view only MICROTECH instruments.

other WIRELESS devices	MICROTECH instruments
Microtech Data System	
File Data Information	
Available devices	X
7A:D0:70:DC:9F:FE	41:64:EF:05:C8:24 -4500 -4500 -4500
Attached devices	
Precision wireless indicator 🥏 🖸	
Data table ×	
Settings 🛠	
Timer • 1	
mm O in Resend data	
Device Name	
Sarial Mumber	
Operator Name	
connected	disconnected
Precision wireless in dicator 🥔	Precision wirelese o Vicer
S 0 6247mm	A 6 56 2550m
0.024711111	· · · · · · · · · · · · · · · · · · ·
C9:E9:3E:9C:D5:0E Last value: N/A	D5:38:E2:F8:8D:87 Last value: N/A
Data table	Data table
Settings 3	Settings X

Select Filtering device mode in Connection menu to view only MICROTECH instruments in Avialable devices area

Microtech Data S	ystem				
File Data Inf	ormation		K		
Available devices					
DA:A7:3 -55db Precision wi	7:AC:6D:BE	C3:4B:FC:0C:FB:85 -59db Precision wireless indicator	53db Precision wireless caliper	C9:E9:3E:9C:D5:0E -55db Precision wireless indicator	

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MEASURING PROCESS

Connect USB dongle and power on Wireless or Computerized devices. Wireless and Computerized devices will be appeared in Available devices area To start data transfer move them to Attached devices area. If Auto synchronization is switched on, devices will be moved to Attached devices area automatically. - 0 Microtech Data System × File Data Informat Energy saving mode Auto synchronization 8 vailable devi 8C:85:90:78:8B:24 -43db 7A:D0:70:DC:9F:FE 56:03:E6:17:1B:C4 48th 48th 47:DB:DB:A46:78:1 MICROTECH ttached device Precision wireless 0 0 0 0.6247mm Ry 🔵 56.3550mn -4.3316mm C9:E9:3E:9C:D5:0E Last value: N/A D5:38:E2:F8:8D:87 Last value: N/A C3:48:FC:0C:FB:85 Last value: N/A × Data table Data table Data table Settings



RESOLUTION & UNIT SELECTION



Settinas ی روچر 0.6247mm Dot Tenter" kev Data table Down" key 🗌 "Right" key Tab symbol Discreteness of the report Number of digits after decimal poir Synchronous data reading model Cancel Resolution (Number of digit after decimal point)

selection in Setting menu

mm/inch selection



How to save values to table in STANDARD mode:

by pressing the button or tapping touch screen on your device by timer activating inside instrument by pushing actual value on MDS Windows app by timer activating on MDS Windows app by footswitching on MDS Windows app







Actual values (receiving from instrument) can be

If necessary select value options (Dot/Comma) and

÷	\rightarrow C	🗎 docs.go	ogle.com/sp	readshee
	Новая та File Edit	блица 🛱 View Insert	Format Data	Tools 4
ĸ		100% 🔻 rr	он. % .000	123 -
5	- <i>f</i> x			
	А	В	С	E
1	1.5906			
2	1.9825			
3	2.3982			
4	2.7156			
5	3.1269			
6				
7				
8				
9				
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
0				

WWW.MICROTECH.UA



-0.3989m

-0.3987 mr

1.2631 mm

□ MAX Repeats Resend data

-0.2767 mm

10:50

10:50

10.50

		Report generation		?
m		File format XLS format	O CSV format	O PDF forma
*		Reports can be ge PDF report can be	nerated if MS Excel installe generated only if supporte	ed. d by MS Excel.
· ·	_	Data for export Device name Operator name Unit Report template Without template	MAC-address Operation number Time Default	 ✓ Serial num ✓ Value
*		0		Brows
* *		Save as		Brows
		Cancel		0

EXPORT DATA & GRAPH	- Window
---------------------	----------

X

E)					
A1	~	∱ x ∑ = 7/13	/2021		
	A	В	С	D	
1	7/13/2021	11:01	AM		
2					
3	MAC-address:	C9:E9:3E:9C:D5:0E			
4	Device	name:			
5	Serial	number:			
6	Operator	name:			
7	MIN:	-1.5554			
8	AVG:	-0.13			
9	MAX:	2.3685			
10	1	10:51:45.680	-1.5547	mm	
11	2	10:51:46.884	-1.5551	mm	
12	3	10:51:47.363	-1.5554	mm	
13	4	10:51:48.719	1.645	mm	
14	5	10-51-49 757	2 3685	mm	

Export saved data table values for external files Select necessary to save columns on Data for export subsection csv report can be generated in any Windows PC xls report can be generated if MS Excel installed on your PC pdf report can be generated only if supported by MS Excel (the latest versions)



Export saved values to Graph mode Graph can be saved to png format

Simple Graph

Simple Graph with Timebased



2D Doublegraph for special measuring solutions



Example of exported vic file

neral Connection Value E Language Battista Processi Processi Presch Presch Ralana Española Ceaký Türk Polaki Françalis Magyar	voadcast Extre Pot Auto Manual COM3 COM3
Cancel	ОК

🔽 About	
DTECH	MICROTECH Data System 4.3.783 License Information License explosion 6/29/2022 12:00:00 Type: Single Deation Time: 1/21/2021 12:45:02 PM
ICR	Tel / fax: +38 (057) 739 03 50, +380 50 40 Email: tool@microtech.ua Web site: www.microtech.ua
M	Private scientific and manufacturing enter Ukraine, 61001, Kharkiv, Shota Rustaveli Deactivate

Language selection in Setting menu

your local distributor)

1) Open Register product sub-menu

2) Copy and send activation UID code from appllication and Serial No from USB-drive to tool@microtech.ua

3) After checking we will send to your e-mail activation license key.



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WIRELESS HID DATA TRANSFER

MICROTECH COMPUTERIZED AND DIGITAL WIRELESS INSTRUMENTS have WIRELESS HID and HID + MAC data outputs to transfer Data direct to any compatible operation systems and applications in keyboard mode.



WIRELESS HID DATA TRANSFER

DIGITAL WIRELESS INSTRUMENTS

To switch between wireless modes (WIRELESS, HID, and HID + MAC), press and hold the data transmission button for 5 Seconds.

By default, digital wireless devices start in WIRELESS mode, which is indicated by a constantly blinking wireless icon on the display. When you hold the button for 5 Seconds for the first time, WIRELESS mode is activated. Press and hold the button again for 5 Seconds to switch to HID mode. After a third press and hold for 5

Seconds, the device will enter HID + MAC mode.

You can easily identify the current mode by searching for Bluetooth devices, where the device name will indicate the mode. either MICROTECH HID or MICROTECH HID + MAC.

NOTICE:

Always remember to disconnect and remove the device from your Bluetooth settings before changing modes to avoid conflicts and ensure a smooth transition





E-INK INSTRUMENTS

WIRELESS HID DATA TRANSFER

USB HID DATA TRANSFER

MICROTECH COMPUTERIZED INSTRUMENTS have **USB HID** data output to transfer Data direct to any compatible operation systems and applications in keyboard mode.



hold MENU+DATA button for 2sec and sellect HID mode. HID mode indicating by \bigcirc icon on a top right corner.

You can easily identify the current mode by searching for Bluetooth devices, where the device name will indicate the mode, either MICROTECH HID or MICROTECH HID + MAC.

Before starting connection or searching on MDS app



NOTICE:

Always remember to disconnect and remove the device from your Bluetooth settings before changing modes to avoid conflicts and ensure a smooth transition.

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



CONNECTION STATUS INDICATION





CONNECTION

1) Connect micro USB cable from instrument to computer/tablet USB Cable must be with data transfer wires 2) Activate USB connection mode on COMPUTERIZED instrument DON't activate USB connection without cable connection 3) Select settings of Data transfer (Dot/Coma, Trail symbol -Tab, Arr Down, CL-LF) It gives possibility operate in different localizations, table editors 4) You can direct transfer data to any Windows or other OS application.

OPERATION

For transfer DATA throw USB cable you can use some variants:

- Button Push
- Touchscreen Push
- Timer function activation
- Send data from internal memory

- Data transfer in auto-Force mode (Computerized eForce calipers only)







MEASURING HUB - 2 DEVICE indication on main screen HUB - 2D and ON-LINE SYNC GRAPTH - QUICK autoconnection - 2 axis MEMORY MANAGER 2D MODE - PROBE MODE-saving data by Probe - 2 AXIS measuring - SYNC reading - AUTO-PROBE MODE - Touch volue - 2D GRAPH - 2D DATA transfer PROBE 💭 - quick **WIRELESS** Probe connection - WIDE CONFIGURABLE

1) MASTER device: select in WIRELESS menu 2D-M - Master device on WIRELESS connection on HUB mode 2) SLAVE device: select in WIRELESS menu **2D-S** - Slave device on WIRELESS connection on HUB mode 3) HUB mode on MASTER device - select requested mode (PROBE, 2D) and Connect SLAVE device **PROBE MODE**

A.C.on - Auto Connection active HUB MODE 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

MICROTECH

- FORMULA

- SYNCRONIZATION

PROBE MODE

Touch

compensation

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



Connect



External Wireless device conneciton

External Wireless device conneciton

Symbol between Axis

Graphic mode indication setting

FIRMWARE UPDATE

1) Connect USB cable to Windows PC (with data transfer possibilities) 2) Push 10 times FIRMWARE UPDATE BUTTON to activate process



3) You will enter to BOOTLOADER secsion on device 4) Run NordBootloader.exe for WINDOWS file (request from MICROTECH) 5) Click Scan port -> Connect -> 2times Ping (on your device should display some numbers) -> Cheking -> Update and select *.bin file with lasted firmware that you have been downloaded.



6) After successful flashing will display "Loading finished" on device screen. Now you can plug off Micro USB

7) After that, you need to reset the device to factory settings. Tap «RESET TO FACTORY» 10 times.

The firmware update is complete



MEASURING HUB

HUB connection

2D MODE

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MICROTECH V

Push 10 times to FIRMWARE UPDATE







TROUBLESHOOTING

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.

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».



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