



Microtech 120129907 Micron Intelligent Computerized Indicator User Manual

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SPECIFICATION

Item No	Range		Res. ol.	Ac cu- rac y	Hy ste - r esi s	For ce	Pr es et	G o/ N o G o	M ax /M in	For m ula	Ti me r	Te m p c o m p	Li n e a r c o r r	C a l i b r d a t e	C o n n e c t . s t a t u s	R e c h a r g e b a t t	Me m o r y	Wi r e l e s s	U S B	Co lor Di sp la y					
	m m	in ch	mm	µm	µm	N	Functions																		
12012 9133	0-13	0-0,5"	0,00 01 / 0.00 1 / 0.01 /	±5	0,5	0,6 -1	•	•	•	•	•	•	•	•	•	•	Fol der s / 20 00 val	Lo ng ran ge / HI D	U S B HI D / Up da te	To uc h s cr ee n 1, 54 "					
12012 9135				±3			•	•	•	•	•	•	•	•	•	•									
12012 9137				±2			•	•	•	•	•	•	•	•	•	•									
12012 9138				±1.6			•	•	•	•	•	•	•	•	•	•									
12012 9252	0-25,4	0-1"		±7		0.7 -1.2	•	•	•	•	•	•	•	•	•	•					•	Fol der s / 20 00 val	Lo ng ran ge / HI D	U S B HI D / Up da te	To uc h s cr ee n 1, 54 "
12012 9253				±5			•	•	•	•	•	•	•	•	•	•									
12012 9257				±3			•	•	•	•	•	•	•	•	•	•									
12012 9258				±2			•	•	•	•	•	•	•	•	•	•									
12012 9503	0-50,8	0-2"		±10		1,2 -2,2	•	•	•	•	•	•	•	•	•	•					•	Fol der s / 20 00 val	Lo ng ran ge / HI D	U S B HI D / Up da te	To uc h s cr ee n 1, 54 "
12012 9507				±4			•	•	•	•	•	•	•	•	•	•									
12012 9508				±3			•	•	•	•	•	•	•	•	•	•									
12012 9903	0-100	0-4"		±15		3.2 -5.2	•	•	•	•	•	•	•	•	•	•					•	Fol der s / 20 00 val	Lo ng ran ge / HI D	U S B HI D / Up da te	To uc h s cr ee n 1, 54 "
12012 9907				±5			•	•	•	•	•	•	•	•	•	•					•				

‘TECHNICAL DATA

Parameters	
LED display	color 1,54 inch
Resolution	240×240
Indication system	MICS 4.0
Power supply	Rechargeable Li-Pol battery
Battery capacity	450 mAh
Charging port	micro-USB / Magnetic port
Case material	Aluminium
Buttons	Switch (Multifuntional), Reset
Wireless data transfer	Ultra long range
USB data transfer	USB HID

MAIN INFO

SWITCH ON DEVICE – button push (1 sec)

SWITCH OFF DEVICE – button push (2 sec)/ auto switch off

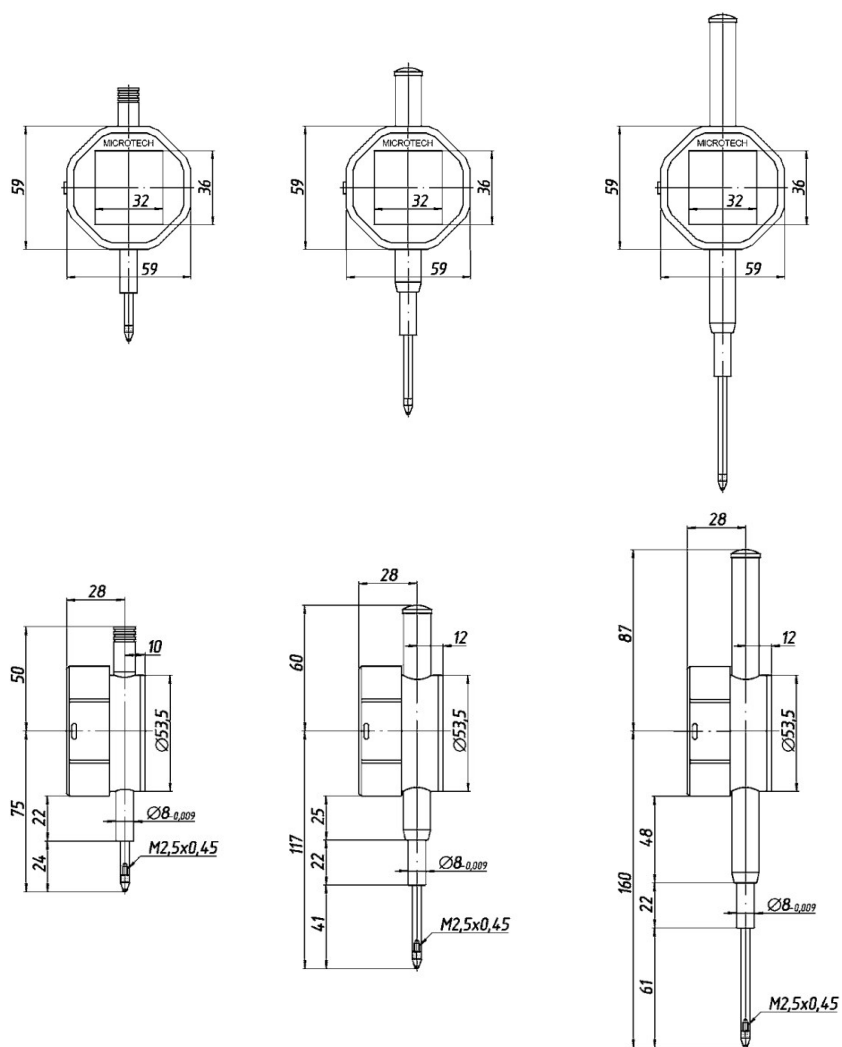
DATA TRANSFER – programming throw menu



BUILT-IN BATTERY – rechargeable Li-Pol battery

For charging connect USB cable

DIMESIONAL DRAWINGS



DATA TRANSFER

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



WIRELESS CONNECTION TO MDS app

FREE SOFTWARE

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



WIRELESS HID CONNECTION



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

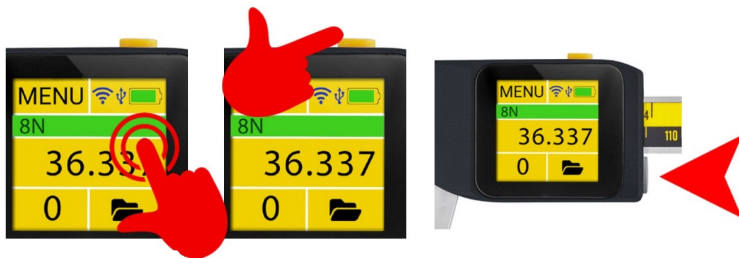
USB HID CONNECTION



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

7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET

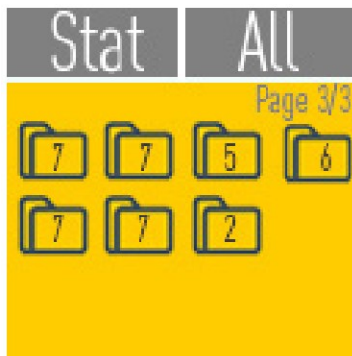
- TOUCHSCREEN TAP
- BUTTON PUSH
- SELECTED FORCE



- BY TIMER



- FROM MEMORY



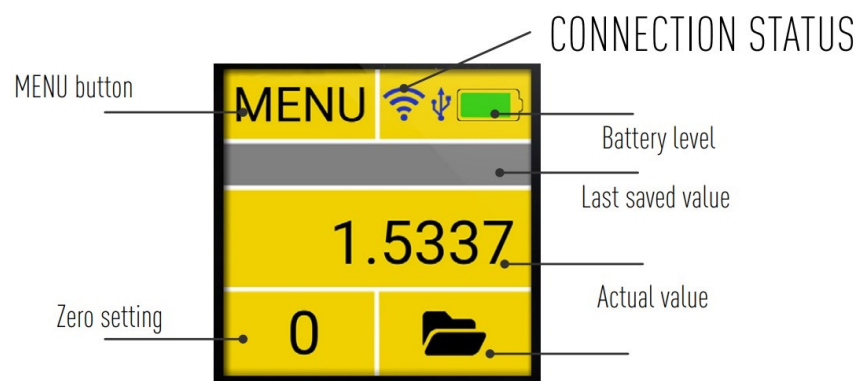
- IN MDS APP



- FROM PAIRED DEVICE



MAIN SCREEN



- WIRELESS DISCONNECTED



- WIRELESS CONNECTED



- WIRELESS HID CONNECTED



- USB HID CONNECTED



- USB HID DISCONNECTED

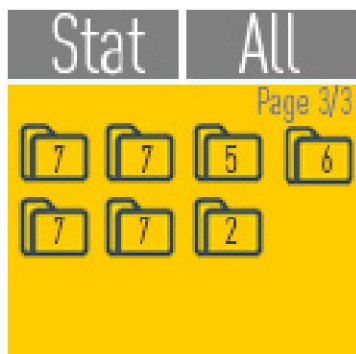


MEMORY

For save measuring data to internal device memory touch data area on screen or button push. You can view saved data throw menu or send Wireless or USB connection to Windows PC, Android or iOS devices.

It's possible to use Standard or Folders system with 2000 values in memory.

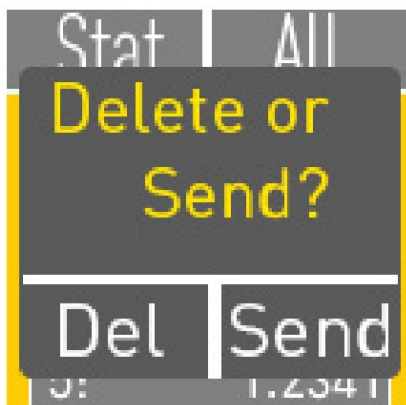
- FOLDERS SYSTEM



- MEMORY 2000 val

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

- MEMORY EXPORT



- STATISTIC



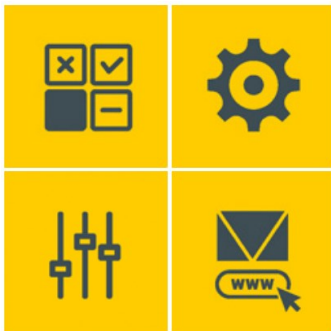
Basic STATISTIC functions:

- MAX – maximum saved value
- MIN – minimum saved value
- AVG – average value
- D -difference between MAX & MIN

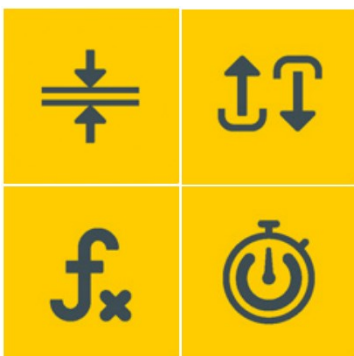
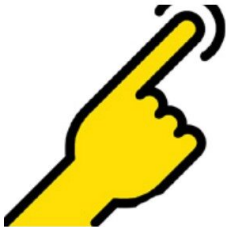
STANDARD or FOLDER system can be activated throw MEMORY menu

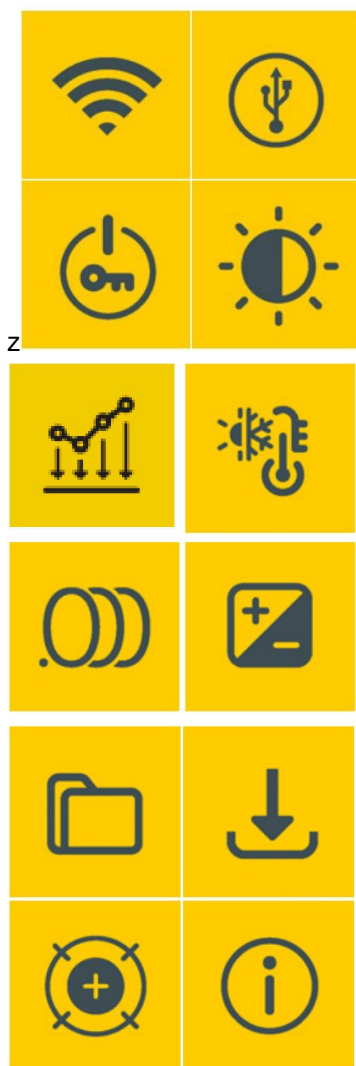
MENU STRUCTURE

MENU CONFIGURATION



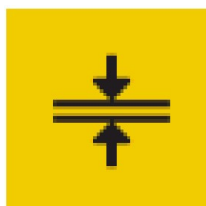
USE TOUCHSCREEN TO OPERATE MENU SWIPE TO MOVE INSIDE





FUNCTIONS

LIMITS mode GO/NOGO



MAX – NoGo more Upper limit

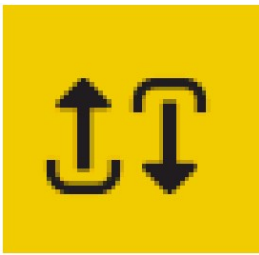
MIN – NoGo less Lower limit

RANGE – Go between Limitscc

COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo



PEAK mode MAX/MIN

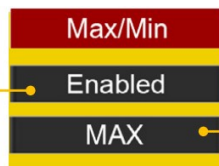


INDICATION AND SAVING MAX OR MIN VALUES

DISABLE - non active mode

ENABLE - activating mode

REFRESH - refresh peak value according timer



MAX - indicating MAX measured value

MIN - indicating MIN measured value

TIMER mode



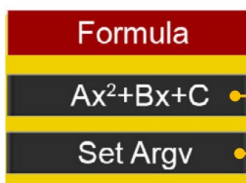
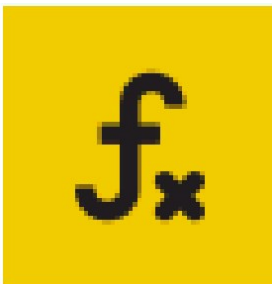
SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER



Select timer period

Reset to deactivate mode

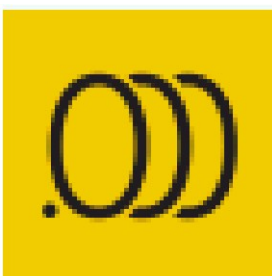
FORMULA mode



Select FORMULA Type (Math, Radius or other)

Select arguments

RESOLUTION selection

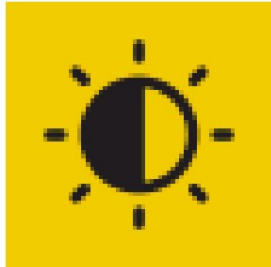


Resolution
X.0000
mm

Resolution selecting

mm/inch conversion

DISPLAY settings



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

Display rotation 0°, 90°, 180°, 270°

Brightness level

LINEAR error compensation



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

O: 17.251	
C: 17.258	
UP	OK
DN	RES

actual values

correct values by up&down button

confirm point correction

WIRELESS data transfer



SS data transfer

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

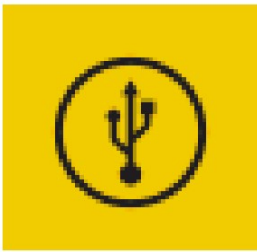
2D-S - Slave device on WIRELESS connection on HUB mode

Wireless
HID
CLEAR

Reconnection button

Wireless power regulation

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

RESET to Factory settings



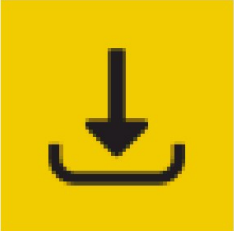
Push 10 times to RESET device to factory settings
Push 10 times to FIRMWARE UPDATE

EXTRA



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

RESET to Factory settings**RESET to Factory settings****MEMORY manager setting**



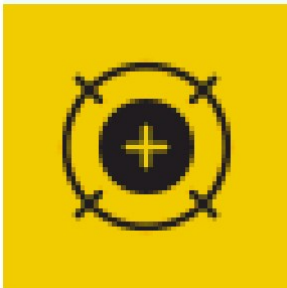


QR Link to MICROTECH web site page with MDS Software download

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



CALIBRATION date info



Display		
Day	Month	Year
1	1	2023

Push for change calibration date info

Device INFO



MICROTECH

www.microtech.ua
FW 4.0.37
XX:XX:XX:XX:XX:XX

Information about device

- Firmware version
- MAC adress for WIRELESS connection

INDUSTRY 4.0 INSTRUMENTS





MICROTECH

innovative measuring instruments
 61001, Kharkiv, Ukraine, str. Rustaveli, 39
 tel.: +38 (057) 739-03-50
www.microtech.ua
tool@microtech.ua

Documents / Resources

	Microtech 120129907 Micron Intelligent Computerized Indicator [pdf] User Manual 120129133, 120129135, 120129137, 120129138, 120129252, 120129253, 120129257, 120129258, 120129503, 120129507, 120129508, 120129903, 120129907, 120129907 Micron Intelligent Computerized Indicator, 120129907, Micron Intelligent Computerized Indicator, Intelligent Computerized Indicator, Computerized Indicator, Indicator
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References

-  [Main page - MICROTECH - Innovative measuring instruments](#)