



SUB-MICRON COMPUTERIZED INTERNAL 3 POINT MICROMETER

USER MANUAL



ISO17025:2017



ISO 9001:2015

www.eurotools-precision.com



Item No	Range		Resolution		Accuracy	Max depth	Setting ring	Indication
	mm	inch	mm	inch	µm	mm		
133700210	2-2.5	0.08-0.09"	0,0001	0.00001"	±3	154	+	computerized MICS system with 1.54" touchscreen
133700310	2.5-3	0.09-0.12"			±3	154	+	
133700410	3-4	0.12-0.16"			±3	154	+	
133700510	4-5	0.16-0.20"			±3	154	+	
133700610	5-6	0.20-0.24"			±4	154	+	
133700810	6-8	0.24-0.32"			±4	154	+	
133701010	8-10	0.32-0.4"			±4	154	+	
133701210	10-12	0.4-0.5"			±4	154	+	
133701610	12-16	0.5-0.63"			±4	230	+	
133702010	16-20	0.63-0.8"			±4	230	+	
133702510	20-25	0.8-1"			±4	240	+	
133703010	25-30	1-1.2"			±4	240	+	
133704010	30-40	1.2-1.6"			±4	240	+	
133705010	40-50	1.6-2"			±4	240	+	
133707010	50-70	2-3"			±4	250	+	
133710010	70-100	3-4"			±4	250	+	
133715010	100-150	4-6"			±4	250	+	
133725010	150-250	6-10"			±5	250	+	
133730010	200-300	8-12"			±6	250	+	
133750010	200-500	8-20"			±8	650		
133790011	200-1000	8-40"	±11	1150				

TECHNICAL DATA

Parameters	
LED display	color 1,54 inch
Resolution	240x240
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

CHARGING



BUILT-IN BATTERY -
rechargeable Li-Pol battery

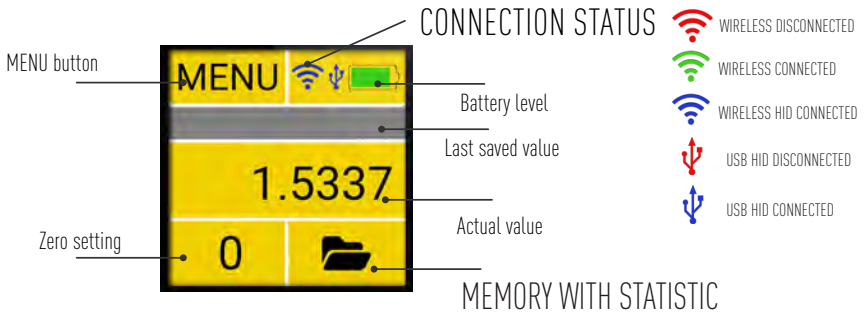
For charging connect USB cable

BUTTONS






SWITCH ON DEVICE - button push (1 sec)
SWITCH OFF DEVICE - button push (2 sec)/ auto switch off
DATA TRANSFER - programming throw menu



MAIN SCREEN



CONNECTION STATUS

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

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




KEYBOARD MODE

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

USB HID CONNECTION




KEYBOARD MODE

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



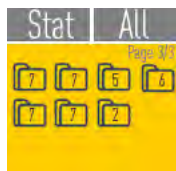
FROM PAIRED DEVICE



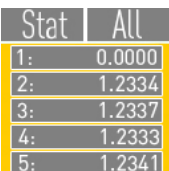
MEMORY

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.

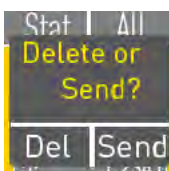
It's possible to use Standard or Folders system with 2000 values in memory.



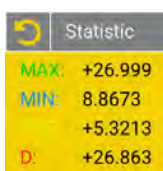
FOLDERS SYSTEM



MEMORY 2000 VAL.



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

DOWNLOAD APP

DOWNLOAD MDS APP FOR MICROTECH DEVICES

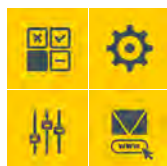
WIRELESS CONNECTION FROM www.microtech.ua,

GooglePlay & App Store



MENU STRUCTURE

MENU CONFIGURATION



USE TOUCHSCREEN TO OPERATE MENU SWIPE TO MOVE INSIDE



LIMITS mode GO/NOGO



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

COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo



Upper limit
 Lower limit

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



SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER



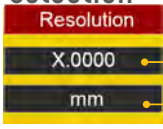
Select timer period
 Reset to deactivate mode

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
 - Alluminium and alloys

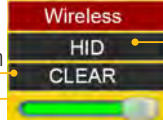
FUNCTIONS



WIRELESS data transfer



Reconnection button
Wireless power
regulation



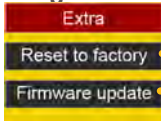
ON - WIRELESS data transfer to MDS App for Android, iOS, Windows
HID - WIRELESS HID direct transfer data to any App in Windows, MacOS, Linux, Android devices (like keyboard). Configure data format in USB sub-menu
2D-S - Slave device on WIRELESS connection on HUB mode

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)

LINK to app's



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

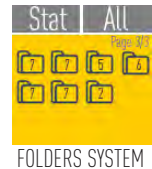


MEMORY manager setting



Activating STANDARD or FOLDER SYSTEM

Values in each Folder



CALIBRATION date info

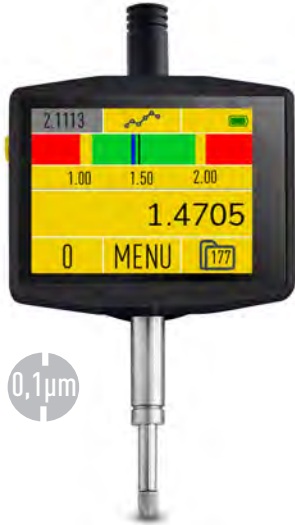


Push for change calibration date info

Device INFO



Information about device
- Firmware version
- MAC adress for WIRELESS connection



0,1µm



1µm

FORCE CONTROL
1-20N



0,1µm



0,1µm



1µm