



MICROTECH Sub Micron Intelligent Computerized Indicator User Manual

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MICROTECH Sub Micron Intelligent Computerized Indicator



Product Usage Instructions

- **Switch On Device:** Press the button for 1 second.
- **Switch Off Device:** Press the button for 2 seconds or the device will automatically switch off.
- **Data Transfer:** Transfer data by programming through the menu.
- **Built-in Battery:** The device has a rechargeable Li-Pol battery. To charge, connect the USB cable.
- **Locking Screw System:** Use the locking screw system for fine adjustment.
- **Interchangeable Bases:** The set includes interchangeable bases of 150mm, 200mm, and 300mm.
- **Warning:** Avoid scratches on the measuring surfaces and measuring the size of an object during machining.

Data Transfer Modes

- **Wireless Connection to MDS App:** Transfer data wirelessly to the MICROTECH MDS FREE SOFTWARE app for Windows, Android, and iOS.
- **Wireless HID Connection:** Transfer data wirelessly in HID mode (like a keyboard).
- **Keyboard Mode:** Directly transfer data to any customer's app and system.
- **USB HID Connection:** Transfer data via USB in HID mode (like a keyboard).

Ways to Transfer Data to PC or Tablet

- Touchscreen Tap
- Button Push
- Selected Force

- By Timer
- From Memory
- In MDS App
- From Paired Device

SPECIFICATION

Item No	Ra nge	Resolution				Acc urac y	Fi ne adj ·	Pr es et	G o/ N o G o	M ax /M in	Fo rm ul a	Ti mer	Te mp co mp	Li ne ar co rr	C ali br da te	C on ne ct ·s ta tu s	R ec ha rg e ba tt er y	Me m or y	Wi rel es s	U S B	C ol or Di sp la y
	gr ad	sec o f arc	gra d	ra d	min of ar c		wh eel														
1511 3605 5	0- 36 0°	1/12' (5")	0.0 05 °	0. 00 01	±3'	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·

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



WARNING: IN THE PROCESS OF WORKING WITH PROTRACTOR SHOULD BE AVOIDED:

- Scratches on the measuring surfaces;
- Measuring the size of object in the process of machining;

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

WIRELESS HID CONNECTION



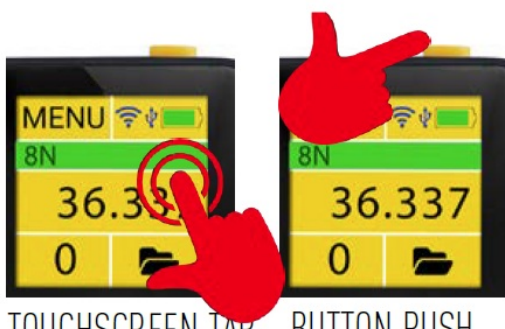
- WIRELESS HID data transfer (like keyboard) direct to any customers app and system

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

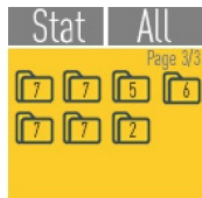
BUTTON PUSH



SELECTED FORCE



BY TIMER



FROM MEMORY



IN MDS APP



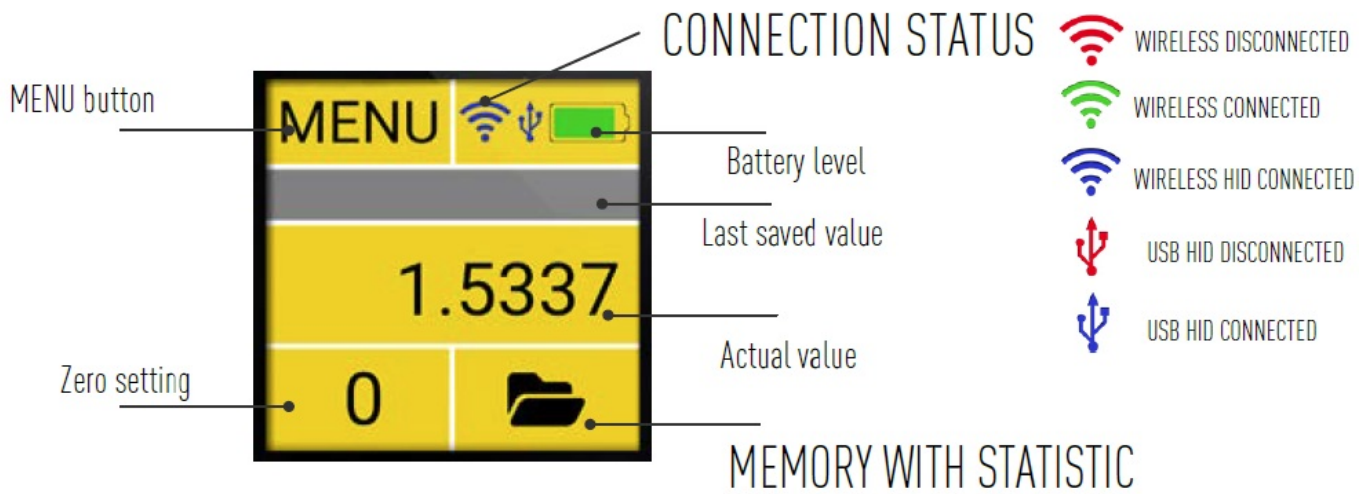
FROM PAIRED DEVICE

DOWNLOAD APP



- DOWNLOAD MDS APP FOR MICROTECH DEVICES WIRELESS CONNECTION FROM www.microtech.ua, GooglePlay & App Store.

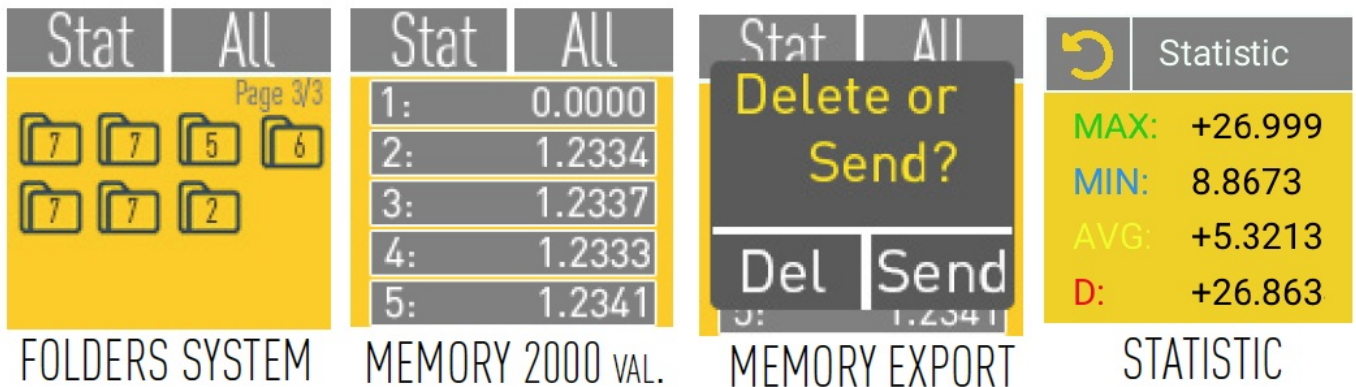
MAIN SCREEN



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.

Basic STATISTIC functions:



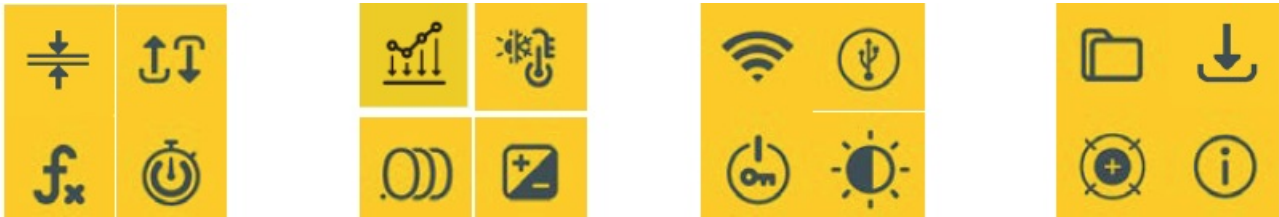
- MAX – maximum saved value
- MIN – minimum saved value
- AVG – average value
- D -difference between MAX & MIN

STANDARD or FOLDER system can be activated throw MEMORY menu

MENU STRUCTURE



MENU CONFIGURATION



FUNCTIONS

LIMITS mode GO/NOGO



COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo

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



PEAK mode MAX/MIN



INDICATION AND SAVING MAX OR MIN VALUES

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



TIMER mode



SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

Timer

0.000 sec

Reset

Select timer period

Reset to disactivate 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

Display rotation 0°, 90°, 180°, 270°

Brightness level

LINEAR error compensation /Linear correction error's on device

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

O: 17.251

C: 17.258

UP

DN

OK

RES

actual values

correct values by up&down button

confirm point correction



TEMP compensation

Manual Temperature setting



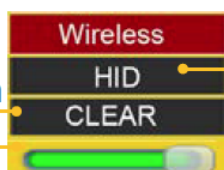
4 types of material for selection:

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

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



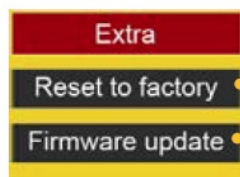
Connect USB cable to PC & Activate USB HID connection mode

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

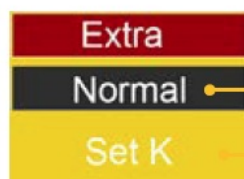
RESET to Factory settings



Push 10 times to RESET device to factory settings

Push 10 times to FIRMWARE UPDATE

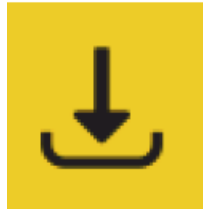
EXTRA



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



FOLDERS SYSTEM

CALIBRATION date info



Push for change calibration date info

Device INFO



Information about device

- Firmware version
- MAC adress for WIRELESS connection

INDUSTRY 4.0 INSTRUMENTS



Contact

MICROTECH

- innovative measuring instruments
- 61001, Kharkiv, Ukraine, str. Rustaveli, 39
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Documents / Resources

	MICROTECH Sub Micron Intelligent Computerized Indicator [pdf] User Manual Sub Micron Intelligent Computerized Indicator, Sub Micron, Intelligent Computerized Indicator, Computerized Indicator, Indicator
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References

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