



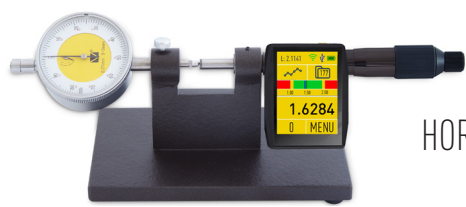
# DIAL INDICATOR CALIBRATION STAND

# USER MANUAL





Item No	Type	Calibr.	Range		Resol	Micrometer head			Positioning scale	Preset	Go/NoGo	Max/Min	Formula	Timer	Temp comp	Linear corr	Calibr date	Connect status	Recharge batt	Memory	Wireless	USB	Color Display		
			mm	inch		Range	Accur.	Non-Rotating																	
			mm	mm		µm																			
25111026	Horiz	Dial	0-25	0-1"	0,0001	25	±2			•	•	•	•	•	•	•	•	•	•	•	Folders / 2000 val	Long range / HID	USB HID / Update	touchscreen 1,54"	
25111027			0-50	0-2"		50	±3			•	•	•	•	•	•	•	•	•	•	•					•
25111051			0-50	0-2"		25	±2			•	•	•	•	•	•	•	•	•	•	•					•
25113025	Vertical	Dial & Lever	0-25	0-1"	0,0001	25	±2			•	•	•	•	•	•	•	•	•	•	•	Folders / 2000 val	Long range / HID	USB HID / Update	touchscreen 1,54"	
25113027			0-50	0-2"		50	±2	•		•	•	•	•	•	•	•	•	•	•	•					
25113050			0-100	0-4"		50	±2		•	•	•	•	•	•	•	•	•	•	•	•					•
25113100			0-150	0-8"		50	±2		•	•	•	•	•	•	•	•	•	•	•	•					•
25113150							±2		•	•	•	•	•	•	•	•	•	•	•						



HORIZONTAL

## TYPES



VERTICAL



VERTICAL WITH SCALE

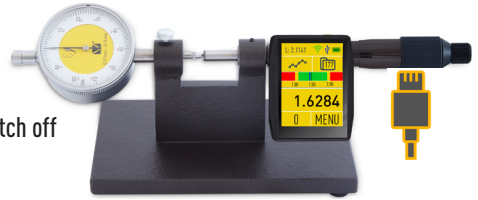
# TECHNICAL DATA



**MICROTECH**

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

- 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

## 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**



**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**



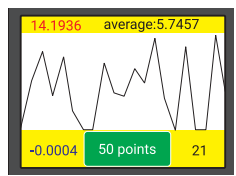
- TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE
- TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS
- TRANSFER DATA TO ANY BROWSE OR APP

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

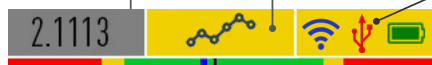


# MAIN SCREEN

ON-LINE GRAPHIC MODE

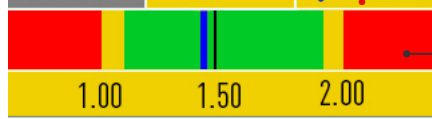


LAST VALUE



## CONNECTION STATUS

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



ANALOG SCALE

1.4705

## MEMORY



STANDARD or FOLDER system can be activated throw MEMORY menu

0 MENU 177

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

Stat	All	Stat	All	Stat	All	Statistic
1:	0.0000	1:	0.0000	Delete or Send?		MAX: +26.999
2:	1.2334	2:	1.2334	Del	Send	MIN: 8.8673
3:	1.2337	3:	1.2337			AVG: +5.3213
4:	1.2333	4:	1.2333			D: +26.863
5:	1.2341	5:	1.2341			

FOLDERS SYSTEM MEMORY 2000 VAL. MEMORY EXPORT STATISTIC

# MAIN SCREEN on 2D mode

ANALOG SCALE FOR PROBE MODE



2D AND HUB MODE

0 P 0.334

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

ON-LINE GRAPHIC MODE

0 75.573

MENU 177

# FUNCTIONS



MICROTECH

## 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

>	2.000	Upper limit
<	3.000	Lower limit
%	20	Yellow zone on analog scale
SCALE	RES	

## 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/Min	
Enabled	MAX - indicating MAX measured value MIN - indicating MIN measured value
MAX	

## TIMER mode



### SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

Timer	
0.000 sec	Select timer period
Reset	Reset to deactivate mode

## FORMULA mode



Formula	
Ax <sup>2</sup> +Bx+C	Select FORMULA Type (Math, Radius or other)
Set Argv	Select arguments

## RESOLUTION selection



Resolution	
X.0000	Resolution selecting
mm	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	Display rotation 0°, 90°, 180°, 270°
Angle 270	
Sleep ON	
Brightness level	Brightness level

## LINEAR error compensation



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

### Linear correction error's on device

O: 17.251	actual values
C: 17.258	correct values by up&down button
UP   OK	confirm point correction
DN   RES	

## TEMP compensation



Manual Temperature setting

Temp.com.	
Cu, Cu alloys	
27.5°C	RES

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  
**2D-M** - Master device on WIRELESS connection on HUB mode

## USB OTG data transfer

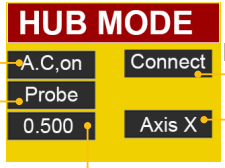


Connect USB cable to PC & Activate USB HID connection mode  
Select setting of data transfer  
Direct transfer data to any App in Windows, MacOS, Linux, Android devices  
Configuring data transfer Dot/Comma and Tab/Arrow Down/CR+LF

## 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



Setting PROBE limit value

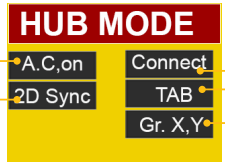
## PROBE MODE

External Wireless device connection

Axis priority selecting

## 2D 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  
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External Wireless device connection

Symbol between Axis

Graphic mode indication setting

# FUNCTIONS



MICROTECH

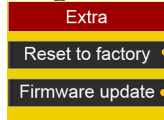
## LINK to app's



QR Link to MICROTECH web site page with MDS Software download

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

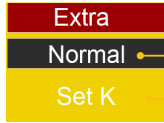
## RESET to Factory settings



Push 10 times to RESET device to factory settings

Push 10 times to FIRMWARE UPDATE

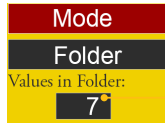
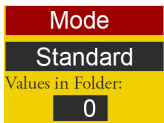
## EXTRA



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

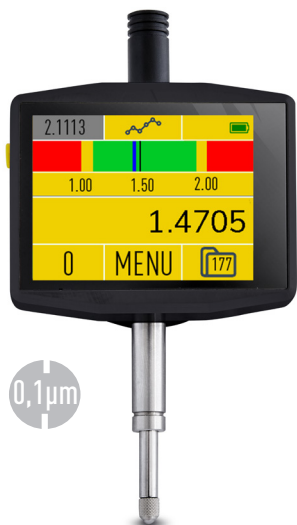
- Firmware version

- MAC adress for WIRELESS connection



MICROTECH

# INDUSTRY 4.0 INSTRUMENTS



## MICROTECH

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