



MICROTECH 25111026 Dial Indicator Calibration Stand User Manual

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MICROTECH

MICROTECH 25111026 Dial Indicator Calibration Stand



MICROTECH Dial Indicator Calibration Stand

User Manual
Calibration ISO 17025:2017
ISO 9001:2015

Non-Rotating Positioning scale

Preset Go/NoGo Max/Min Formula Timer Temp comp Linear corr Calibr date Connect. status Recharge batt
Memory Wireless

USB Color Display

Folders / 2000 val Long range / HID USB HID / Update Touchscreen 1,54

Specification

Item No	Type	Calibr. Range	Resol Range	Accur.
25111026	Dial	0-25 mm	0.0001 mm	25 m
25111027	Dial	0-50 mm	0.0001 mm	50 m
25111051	Dial & Lever	0-25 mm	0.001 mm	25 m
25113025	Dial	0-50 mm	0.001 mm	50 m
25113027	Dial & Lever	0-100 mm	0.001 mm	100 m
25113050	Dial & Lever	0-150 mm	0.001 mm	150 m
25113100	Dial & Lever	0-8 inch	0.0001 inch	8 m
25113150	Dial & Lever	0-150 mm	0.001 mm	150 m

Technical Data

- Parameters:
- LED display Indication system
- Power supply Charging port
- Case material Wireless data transfer
- USB data transfer color 2.4 inch 320×240 MICS 4.0
- Rechargeable Li-Pol battery 500 mAh micro-USB
- Aluminium Long range / HID USB HID

Switch On/Off and Data Transfer

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 SAVING DATA TO XLS. CSV FORMATS FREE SOFTWARE TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE NO DONGLE TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS WIRELESS HID CONNECTION USB HID CONNECTION NO DONGLE WIRELESS HID and USB HID data transfer (like keyboard) direct to any customers app and system SAVING GRAPH TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS TRANSFER DATA TO ANY BROWSWE OR APP

Product Usage Instructions

Memory and Data Saving

STANDARD or FOLDER system can be activated through MEMORY menu.

To save measuring data to internal device memory, touch the data area on the screen or press the button. You can view saved data or send it via WIRELESS or USB connection to a Windows PC, Android, or iOS device. It's possible to use Standard or Folders memory modes.

Analog Scale and Probe Mode

ANALOG SCALE can be used in PROBE MODE. ON-LINE GRAPHIC MODE

FOLDERS SYSTEM MEMORY 2000 VAL. MEMORY EXPORT STATISTIC MAIN SCREEN on 2D mode 2D AND HUB MODE

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

Functions

- LIMITS mode GO/NOGO
- COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo
- MAX – NoGo more Upper limit
- Upper limit
- MIN – NoGo less Lower limit
- RANGE – Go between Limits
- NONE – Analog scale active
- Lower limit Yellow zone on analog scale

PEAK mode MAX/MIN

- INDICATION AND SAVING MAX OR MIN VALUES
- DISABLE – non-active mode
- ENABLE – activating mode
- MAX – indicating MAX measured value
- REFRESH – refresh peak value
- MIN – indicating MIN measured value according to timer

TIMER mode

SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

FORMULA mode

Select timer period

Reset to deactivate mode

RESOLUTION selection

Select FORMULA Type (Math, Radius or other)

Select arguments

DIAL INDICATOR

CALIBRATION STAND

USER MANUAL

Calibration ISO 17025:2017

ISO 9001:2015

SPECIFICATION

Item No	Type	Calibr.	Range		Resol	Micrometer head			Positioning scale	Preset	Go/NoGo	Max/Min	Formula	Timer	Temp comp	Linear corr	Calibrate	Connect status	Recharge batt	Memory	Wireless	USB	Color Display
			m m	inch	m m	Range	Accuracy	Non-Rotating															
2511 1026	Horiz	Dial	0-25	0 - 1"	0,0001	25	± 2			.	.	.	.	.	.	.	.	.	.	Folder / 2000 val	Long range / H/D	USB H/D / Update	Touch screen 1,54"
2511 1027							.			.	.	.	.	.	.	.	.	.	.				
2511 1051			0-50	0 - 2"		50	± 3			.	.	.	.	.	.	.	.	.	.				
2511 3025	Vertical	Dial & Lever	0-25	0 - 1"		25	± 2			.	.	.	.	.	.	.	.	.	.				
2511 3027							± 2	.		.	.	.	.	.	.	.	.	.	.				
2511 3050			0-50	0 - 2"		50	± 2			.	.	.	.	.	.	.	.	.	.				
2511 3100			0-100	0 - 4"			± 2		.	.	.	.	.	.	.	.	.	.	.				
2511 3150			0-150	0 - 8"			± 2		.	.	.	.	.	.	.	.	.	.	.				

TYPES



HORIZONTAL



VERTICAL



VERTICAL WITH SCALE

TECHNICAL DATA

Parameters	
LED display	color 2,4 inch 320×240
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
Windows iOS android
NO DONGLE

WIRELESS HID CONNECTION
USB HID CONNECTION
NO DONGLE

Windows iOS android LINUX macOS

SAVING DATA TO XLS. CSV FORMATS

TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE

TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS

SAVING GRAPH

TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE

TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS

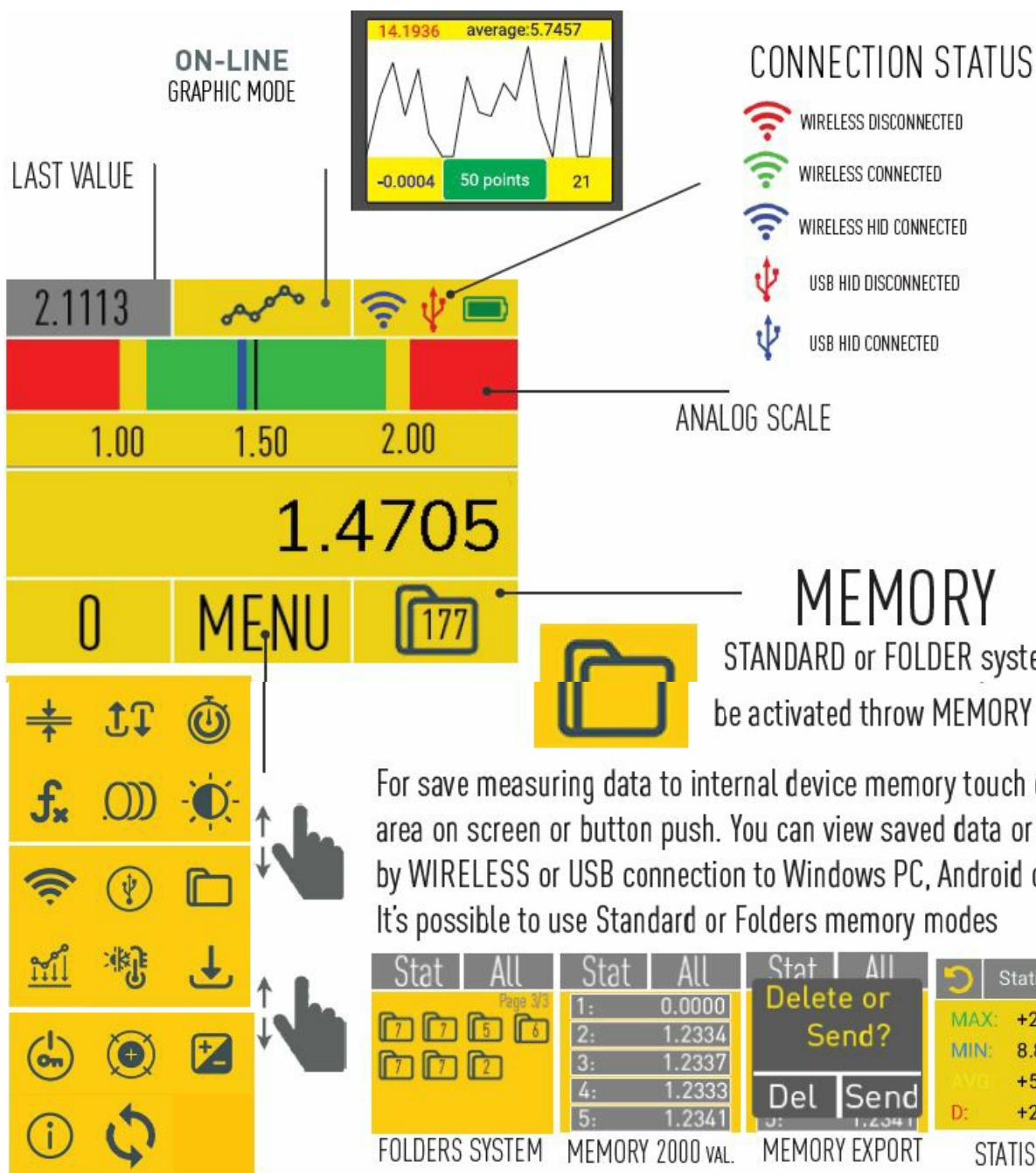
TRANSFER DATA TO ANY BROWSWE OR APP

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

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

MAIN SCREEN

CONNECTION STATUS

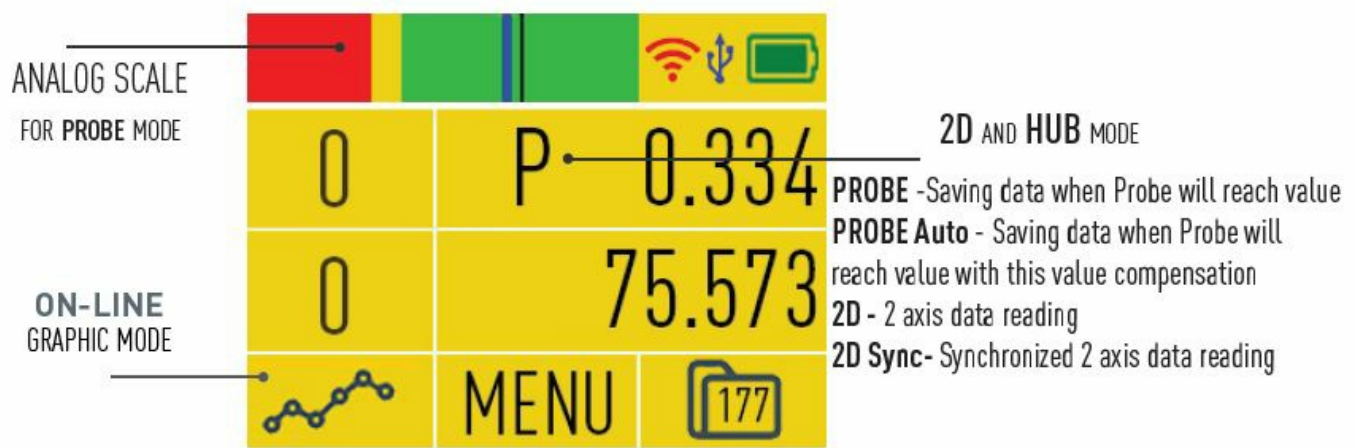


MEMORY

STANDARD or FOLDER system can be activated throw MEMORY menu

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

MAIN SCREEN on 2D mode



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
NONE - Analog scale active

>	2.000
<	3.000
%	20
SCALE	RES

Upper limit
 Lower limit
 Yellow zone on analog scale

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/Min
Enabled
MAX

MAX - indicating MAX measured value
MIN - indicating MIN measured value

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
Ax^2+Bx+C
Set Argv

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

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

PROBE MODE



A.C.on - Auto Connection active

A.C.off - Auto Connection no active

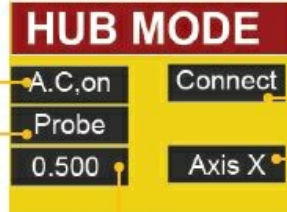
PROBE - Saving data when Probe will reach value

PROBE Auto - Saving data when Probe will reach value with this value compensation

2D - 2 axis data reading

2D Sync - Synchronized 2 axis data reading

Disable - switch off modes



External Wireless device connection

Axis priority selecting

Setting PROBE limit value

2D MODE

A.C.on - Auto Connection active

A.C.off - Auto Connection no active

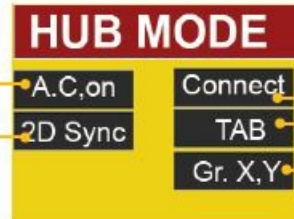
PROBE - Saving data when Probe will reach value

PROBE Auto - Saving data when Probe will reach value with this value compensation

2D - 2 axis data reading

2D Sync - Synchronized 2 axis data reading

Disable - switch off modes



External Wireless device connection

Symbol between Axis

Graphic mode indication setting

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

INDUSTRY 4.0 INSTRUMENTS



FORCE CONTROL
1-20N



Change without prior notice

MICROTECH

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Documents / Resources

	MICROTECH 25111026 Dial Indicator Calibration Stand [pdf] User Manual 25111026 Dial Indicator Calibration Stand, 25111026, Dial Indicator Calibration Stand, Indicator Calibration Stand, Calibration Stand, Stand
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References

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