

COMPUTERIZED BORE CALIPER

USER MANUAL





Item No	Range				Reso- lution	Accu- racy	Jaws		Constant Force	Measuring HUB	Analog scale	Graphic	Preset	Go/NoGo	Max/Min	Formula	Timer	Temp comp	Linear corr	Calibr date	Recharge	Memory	WIRELESS	USB
	Internal		External				Down	Depth																
	mm	inch	mm	inch			mm	mm																
141851127	22-300	0.9-12"	0-300	0-6"	0,01	±30	40	50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
141851157	24-500	1-20"	0-500	0-20"		±40	60	60	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
141851167	30-600	1.2-24"	0-600	0-24"		±70	90	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

TECHNICAL DATA

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

MAIN INFO



BUILT-IN BATTERY - rechargeable Li-Pol battery



SWITCH ON DEVICE - button push (1 sec)

SWITCH OFF DEVICE - button push (3 sec)/ auto switch off

DATA TRANSFER - programming throw menu

MEASURING



DATA TRANSFER



MICROTECH

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



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



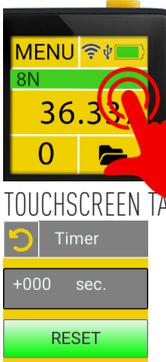
TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS



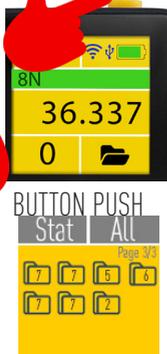
TRANSFER DATA TO ANY BROWSER OR APP

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

7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



BY TIMER



FROM MEMORY



IN MDS APP

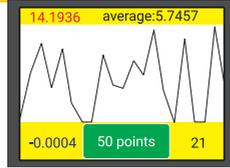




MICROTECH

MAIN SCREEN

ON-LINE GRAPHIC MODE



CONNECTION STATUS

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

LAST VALUE



ANALOG SCALE

0 MENU 177

MEMORY



STANDARD or FOLDER system can be activated through 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

Stat	All
7	7
7	7
7	7
7	7
7	7
7	7

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

Stat All
Delete or Send?
Del Send

Statistic	
MAX:	+26.999
MIN:	8.8673
AVG:	+5.3213
D:	+26.863

FOLDERS SYSTEM

MEMORY 2000 VAL.

MEMORY EXPORT

STATISTIC

MAIN SCREEN on 2D mode

ANALOG SCALE FOR PROBE MODE



0 P 0.334

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

ON-LINE GRAPHIC MODE



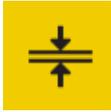
FUNCTIONS



MICROTECH

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

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 - 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^2+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

LINEAR error compensation

Linear correction error's on device



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

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

TEMP compensation



Manual Temperature setting

Temp.com.	
Cu, Cu alloys	4 types of material for selection: - Glass, Quartz - Stainless steel - Cuprum and alloys - Alluminium and alloys
27.5°C	
RES	



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



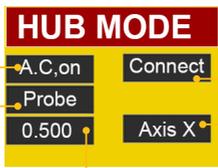
Connect USB cable to PC & Activate USB HID connection mode
Select setting of data transfer
Direct transfer data to any App in Windows, MacOS, Linux, Android devices
Configuring data transfer Dot/Comma and Tab/Arrow Down/CR+LF

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



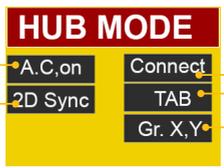
Setting PROBE limit value

PROBE MODE

External Wireless device connection
Axis priority selecting

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

2D MODE

DOWNLOAD APP

DOWNLOAD MDS APP FOR MICROTECH DEVICES

WIRELESS CONNECTION FROM www.microtech.ua,

GooglePlay & App Store



FUNCTIONS

LINK to app's



QR Link to MICROTECH web site page with MDS Software download

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



MICROTECH

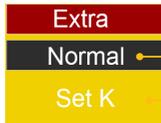
RESET to Factory settings



Push 10 times to RESET device to factory settings

Push 10 times to FIRMWARE UPDATE

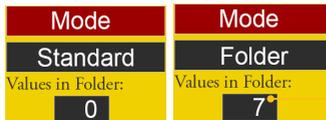
EXTRA



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



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INDUSTRY 4.0 INSTRUMENTS



0,1µm



FORCE CONTROL
1-20N

1µm



0,1µm



0,1µm



1µm

MICROTECH

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