

# **MICROTECH 141088015A Micron Computerized Multi Force Caliper User Manual**

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MICROTECH 141088015A Micron Computerized Multi Force Caliper



# **Product Specifications**

• Calibration Date: Rechargeable

· Auto Off: Yes

Password Memory: YesStatistics Memory: Yes

Wireless: YesUSB: YesHID: Yes

FW Update: AvailableFormula Timer: Yes

• Temperature Compensation: Yes

Linear Correction: YesAnalog Scale: Yes

#### **Product Usage Instructions**

#### **Cleaning and Maintenance**

Clean the oil from the measuring surfaces of the caliper using a cloth. Do not leave the caliper uncharged for an extended period as it may result in internal battery failure.

#### **Charging and Power**

For charging, connect the USB cable to the device's built-in rechargeable Li-Pol battery. To switch on the device, push the button for 1 second. To switch off the device, push the button for 3 seconds or allow it to auto switch off. Data transfer can be done through programming via the menu.

#### **Force Control**

The electronic multi-force control module allows for measuring with a requested force in the range of 1-20N. Different force modes are available such as Disable, Indicate, Auto, and Force. The force indication on the force bar is color-coded for easy reference.

#### **Data Transfer and Memory**

You can save measuring data to the internal device memory by touching the data area on the screen or pushing a button. The saved data can be viewed or sent wirelessly or via USB connection to Windows PC, Android, or iOS devices. Different memory modes like Standard or Folder system can be activated through the memory menu.

#### **Analog Scale and Probe Mode**

The analog scale can be activated for probe mode, and folders system memory allows for storing up to 2000 values. The product also supports memory export and statistics tracking.

# Frequently Asked Questions (FAQ)

# Q: How do I know if the wireless connection is established?

A: The device will indicate "Wireless Connected" on the screen when the wireless connection is established.

# Q: How can I set limits using the product?

A: You can set limits using the Limits mode with color indications on the main screen for Go and NoGo zones.

# **SPECIFICATION**

Ite m No	Rang e		R e s o- lu ti o n	A c c u- ra c y*	e F o r c e	J a w s	M e a s u ri n g	A n al o g s c	G r a p hi	P r e s e	G o/N o G	M a x/ M in	F or m ul a	Ti m er	T e m p c o	L i n e a r	C al i b r d a	R e c h a r	A u t o	P a s s w o	M e m or y	S t a ti s ti	W IR E L E S	USBHL	F W up da te
	m m	i n c h	m m	μ m	N	m m	H U B	al e	С	t	0				m p	o r r.	t e	g e	ff	r d	,	C S	S S	D	
141 088 015 A	0- 1 5 0	0 - 6 "		± 5		4 0/ 1 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•
141 088 020 A	0- 2 0 0	0 - 8 "	0, 0 0	± 8	1 - 2	5 0/ 1 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	10 00 va I	•	•	•	•
141 088 030 A	0- 3 0	0 - 1 2 "		± 1 0	0	6 0/ 2 0	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•

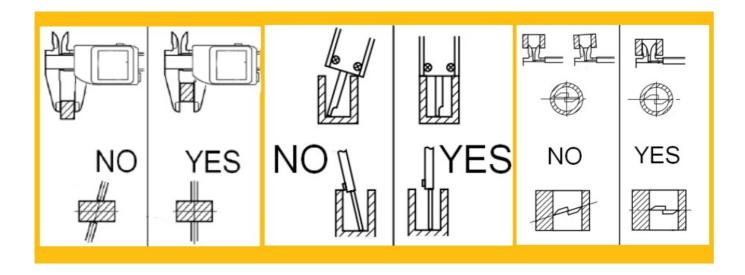
<sup>\*</sup> For internal jaw and depth bar accuracy according DIN 862

# **TECHNICAL DATA**

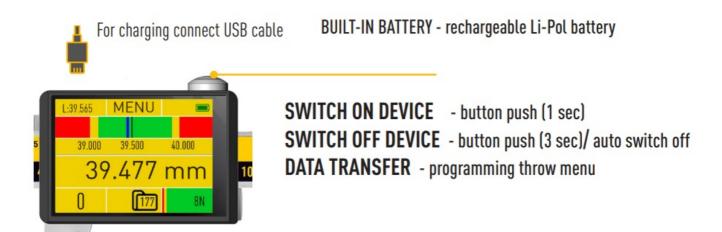
Parameters								
LED display	color 2,0 inch							
Resolution	320×240							
Indication system	MICS 3.0							
Power supply	Rechargeable Li-Pol battery							
Battery capacity	400mAh							
Charging port	micro-USB / Magnetic port							
Case material	Aluminum							
Buttons	Switch (Multifunctional)							
Wireless data transfer	Long range/HID							

Clean the oil from the measuring surfaces of caliper by cloth. DO NOT LEAVE UNCHARGED CALIPER FOR A LONG TIME. THIS MAY RESULT TO INTERNAL BATTERY FAILURE!

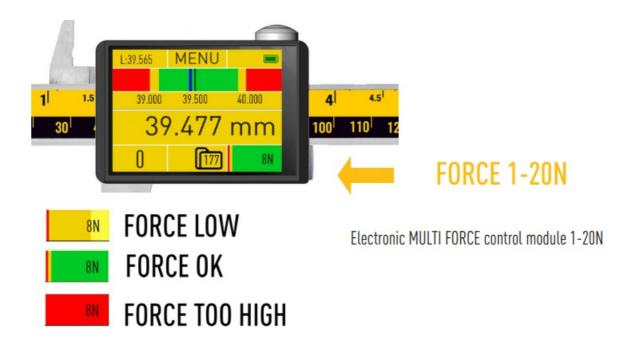
# **CORRECT MEASURING**



# **MAIN INFO**



#### **FORCE CONTROL**



Caliper with electronic multi-Force control module, gives possibility measure all time with a requested FORCE in range 1-20N

# **FORCE MODES:**

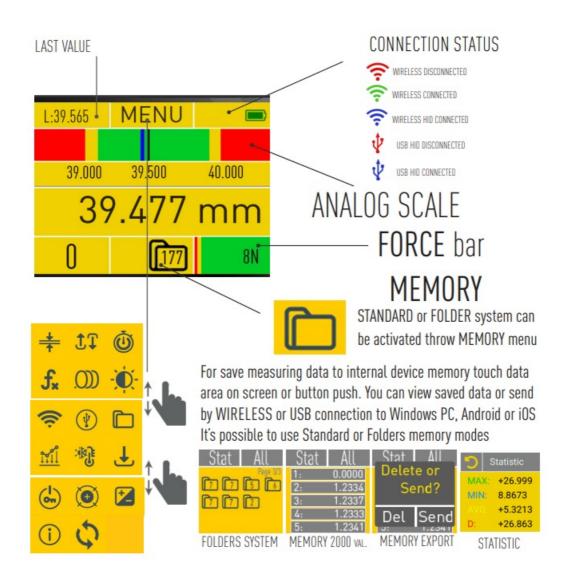
- DISABLE FORCE mode OFF
- INDICATE Indicating requested FORCE and status on FORCE bar
- AUTO Indicating requested FORCE and status on FORCE bar and Saving to memory actual length value upon reaching requested FORCE (1-20N). FORCE -Indicating actual FORCE value during pushing

# FORCE Indication on FORCE bar:

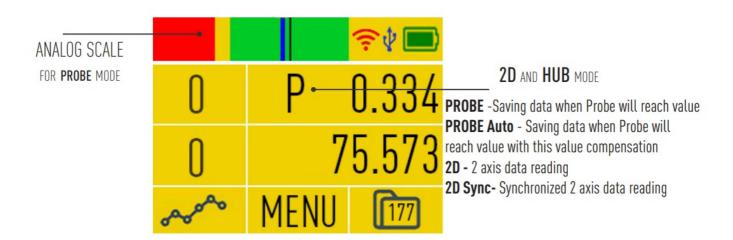
- Green color actual FORCE OK
- Yellow color lower FORCE
- Red color over FORCE

For ZERO setting also use Force control module (push Force up to Green indication and set ZERO by push for 0 button.

#### **MAIN SCREEN**



#### **MAIN SCREEN on 2D mode**



# **FUNCTIONS**

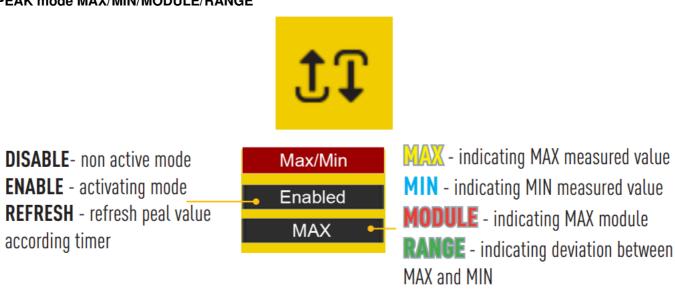
LIMITS mode GO/NOGO



#### COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo

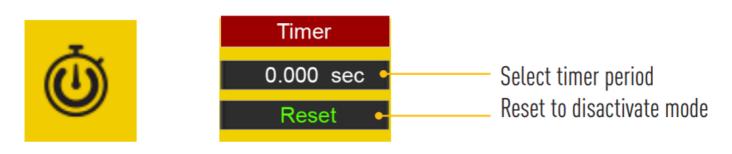


#### PEAK mode MAX/MIN/MODULE/RANGE



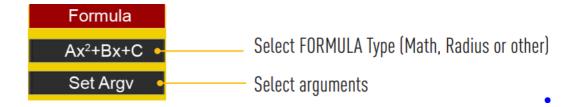
#### SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

#### **TIMER** mode



**FORMULA** mode





#### **RESOLUTION** selection

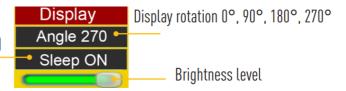




# **DISPLAY settings**



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)

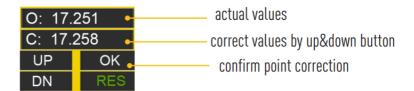


#### Linear correction error's on device

# LINEAR error compensation



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



#### **TEMP** compensation



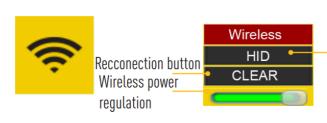




4 types of material for selection:

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

# **WIRELESS** data transfer



**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

Configurating 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

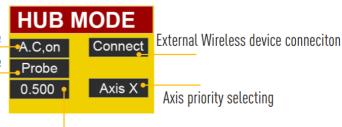
**PROBE** -Saving data when Probe will reach value **PROBE Auto** - Saving data when Probe will

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

#### **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

# \*A.C,on 2D Sync Connect TAB Gr. X,Y\*

External Wireless device conneciton

Symbol between Axis

Graphic mode indication setting

# **FORCE**



- **DISABLE** FORCE mode OFF
- INDICATE Indicating requested FORCE and status on FORCE bar
- AUTO Indicating requested FORCE and status on FORCE bar and Saving to memory actual length value upon reaching requested FORCE (1-20N). FORCE -Indicating actual FORCE value during pushing

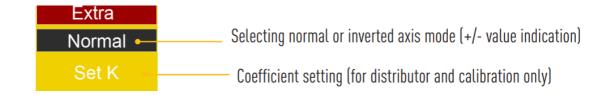
# **RESET to Factory settings**





#### **EXTRA**





# **MEMORY** manager setting

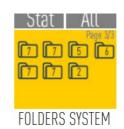






# Activating STANDARD or FOLDER SYSTEM

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

# **INDUSTRY 4.0 INSTRUMENTS**



#### **MICROTECH**

innovative measuring instruments 04080, Kyiv, Ukraine, Nizhneyurkovska str., 45a, 61001, Kharkiv, Ukraine, str. Rustaveli, 39 <a href="https://www.microtech.ua">www.microtech.ua</a> <a href="mailto:tool@microtech.ua">tool@microtech.ua</a>

#### **Documents / Resources**



MICROTECH 141088015A Micron Computerized Multi Force Caliper [pdf] User Manual 141088015A Micron Computerized Multi Force Caliper, 141088015A, Micron Computerized Multi Force Caliper, Multi Force Caliper, Force Caliper, Caliper

# References

► MICROTECH

# • User Manual

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