

COMPUTERIZED FORCE CALIPER

USER MANUAL





Item No	Range		Resolution		Accuracy Externation Force		Protection
	mm	inch	mm	inch	μm	N	
141077321	0-300	0-12"	0,005	0.0002	±20	8	IP54

TECHNICAL DATA

Parameters	
LED display	color 1,54 inch
Resolution	240x240
Indication system	MICS 3.0
Power supply	Rechargeable Li-Pol battery
Battery capacity	450-800 mAh (depends of device)
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch (Multifuntional), Reset
Wireless data transfer	up to 50m on open area

Clean the oil from the measuring surfaces of caliper by cloth. For recharging caliper (Li-Pol rechargeable battery) connect it with standard USB cable to charger device.

DO NOT LEAVE UNCHARGED CALIPER FOR A LONG TIME.
THIS MAY RESULT TO INTERNAL BATTERY FAILURE!

MAIN INFO





SWITCH ON DEVICE - button push (1 sec)
SWITCH OFF DEVICE - button push (3 sec)/ auto switch off
DATA TRANSFER - programming throw menu

ZERO SETTING - push 5 sec to ZERO setting

CHARGING



BUILT-IN BATTERY - rechargeable Li-Pol battery



For charging connect USB cable

FORCE CONTROL



FORCE control module 8N

For zero setting use Force control module- line inside lens must be came off with outside line.

Press the **ZERO** button on Touchscreen for

ZERO possition setting.

During a mesuring use Force control module to measure with optimal Force

BASE RECONNECTION

Sometimes, when battery was uncharges for a long time - necessery to make reading base reconnection

21.381 0 =

PUSH ZERO button (5sec.) on main screen



WIRELESS DATA TRANSFER



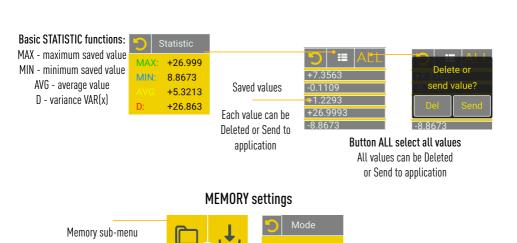
Connect instrument with MICS indication system to Tablet or PC Send data tp Tablet or PC:

- by Touchscreen
- by Multifactinal button psuh (activted in Wireless menu)
- by Timer (activated in Timer menu)
- from Internal Memory

MEMORY

Selecting Standard mode or No saving data to internal memory

For save measuring data to internal caliper's memory touch data area on screen or short button push. You can view saved data throw menu or send Wireless connection to Windows PC. Android or iOS devices.













WIRELESS CONNECTION



IMPORT FROM FILE OR CAMERA





















Windows









SAVING DATA TO XLS. CSV **FORMATS**



SAVING DATA TO XLS, CSV **FORMATS**



SAVING DATA TO XLS. CSV **FORMATS**



TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE



SAVING **GRAPH**



SAVING GRAPH



TRANSFER DATA TO **EXCEL OR OTHER TABLE EDITORS**



VOICE MODE



VOICE MODE



DATA TRANSFER DISTANCE FOR INTELLIGENT INSTRUMENTS

•All MICROTECH Intelligent instruments has internal memory. You can collect data to memory and when it will be neccesary transfer all data to the peripheral device with no data loosing.

- •It's possible transfer data, like in Wireless instruments up to 15 m or up 50 m with external antenna
- •USB port can be used to transfer data directly to Windows PC



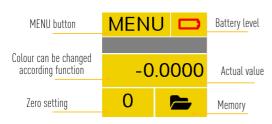
QUALITY CONTROL RESULTS



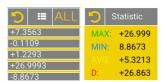
MENU NAVIGATION



USE TOUCHSCREEN TO OPERATE MENU



MFMORY WITH STATISTIC



MENU CONFIGURATION



MAIN MFNII













LIMITS color Go/NoGo



MAX/MIN



FORMULA MODE Ax^2+Bx+C





✓ RESET FRROR COMPENSATION



TEMPERATURE COMPENSATION manual correction



RESOLUTION selected up to 0.0001mm





WIRELESS modes of data transmition



USB USB connection configuration



DEVICE SETTING pin, reset





MEMORY SETTING



SOFTWARE link to download app

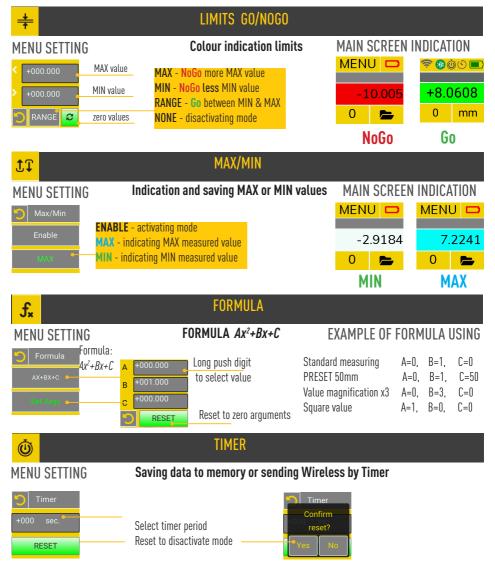


CALIBRATION DATE











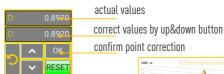




MATHEMATICAL ERROR COMPENSATION

Mathematical correction points with big error to normal values MENII SETTING





use gauge blocks or measuring machine for points correction



TEMPERATURE COMPENSATION

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

Manual Temperature setting

.7 types of material for selection

7 types of material:

- glass, quartz, solid alloys
- granite, graphite
- Fe, NI, Fe alloys
- stainless steel
- cooper, Cu alloys
- alluminium, al alloys
- acrylic sheet

RESOLUTION

MENU SETTING

Resolution selecting mm/inch conversion

MAIN SCREEN INDICATION

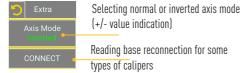
+8.0608

Selecting resolution of value on main screen and memory



EXTRA (Axis mode)

MENU SETTING









WIRELESS CONNECTION

MENU SETTING

Activating or disactivating wireless data transfer





USB CONNECTION

MENU SETTING



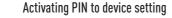






PIN & RESET

MENU SETTING







RESET to factory settings

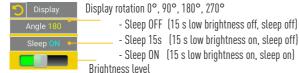




DISPLAY SETTING

MENU SETTING

DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE











MEMORY SETTINGS

MENU SETTING

Activating or disactivating saving values to memory





Standard - saving values to memory OFF - disable saving to memory





LINK TO SOFTWARE

MENU SETTING



QR Link to MICROTECH web site page with MDS Software download

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



Windows



ıOS



CIOFCUD



CALIBRATION DATE

MENU SETTING

Calibration date info







DEVICE INFO

MENU SETTING

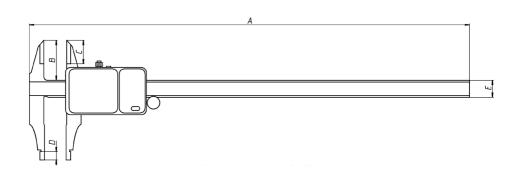


Information about device

- device name
- firmware version
- MAC adress for easy connection

DIMESIONAL DRAWINGS





Dongo	DIMENSIONS						
Range	Α	В	C	D	E		
mm	mm	mm	mm	mm	mm		
0-300	413	40	24	10	17		





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