

COMPUTERIZED MULTI-FORCE CALIPER

USER MANUAL





Item No	Range		Resolution		Accuracy External Force		Protection
	mm	inch	mm	inch	μm	N	
141077321	0-300	0-12"	0,005	0.0002	±20	1-20	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	400 mAh
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch (Multifuntional), Reset
Wireless data transfer	LONG RANGE

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!



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 indication 1-20 N



Electronic MULTI FORCE control module 1-20N

Caliper with electronic multi-Force control module, gives possibility measure all time with a same Force. Measuring Force can be selected throw menu in range 1-20N.

Green color indicating actual Force

Red color - over Force indicating

Automatic Force mode gives possibility saving to memory or transfer to app actual value upon reaching a given Force (1-20N).

For ZERO setting also use Force control module (oush Force up to Green indication and set ZERO by 5 sec push for 0 button.

BASE RECONNECTION

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

21.381 20 0

PUSH ZERO button (5sec.) on main screen



WIRELESS DATA TRANSFER



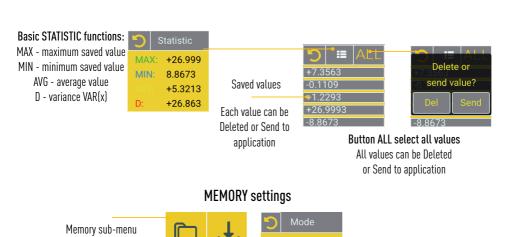
Connect instrument with MICS indication system to Tablet or PC Send data tp Tablet or PC:

- 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







USB-DONGLE



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



- •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



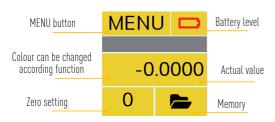
QUALITY CONTROL RESULTS



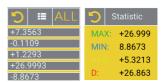
MENU NAVIGATION



USE TOUCHSCREEN TO OPERATE MENU



MFMORY WITH STATISTIC



MENU CONFIGURATION



MAIN MFNII













LIMITS color Go/NoGo



MAX/MIN indicating max or min value



FORMULA MODE Ax^2+Bx+C





FRROR COMPENSATION

mathematical correction



TEMPERATURE COMPENSATION manual correction



RESOLUTION selected up to 0.0001mm





WIRELESS modes of data transmition



USB USB connection configuration



pin, reset





MEMORY SETTING



SOFTWARE link to download app

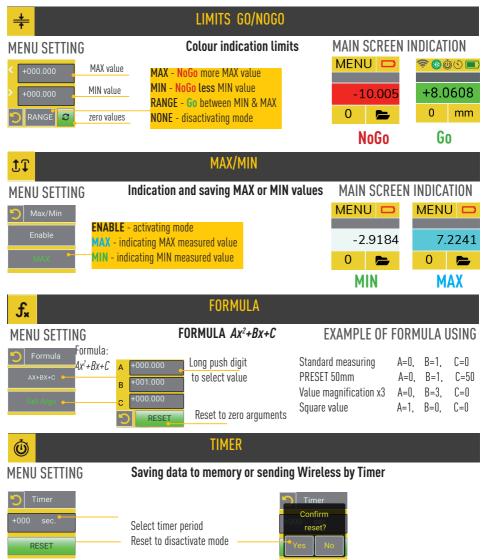


CALIBRATION DATE













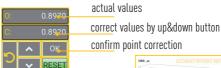


MATHEMATICAL ERROR COMPENSATION

MENU SETTING

Mathematical correction points with big error to normal values





ACCURACY AFEE MATH COMPENSATION

use gauge blocks or measuring machine for points correction



TEMPERATURE COMPENSATION

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

Temp.comp.

Glass,
Solid alloys, Mo

_7 types of material for selection

Manual Temperature setting

7 types of material:

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

.0))

RESOLUTION

MENU SETTING

MAIN SCREEN INDICATION



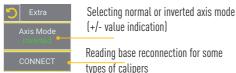
+8.0608

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



Activating PIN to device setting



RESET to factory settings



DISPLAY SETTING

MENU SETTING

DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE



- 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) Brightness level











MEMORY SETTINGS

MENU SETTING

Activating or disactivating saving values to memory





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





FORCE SELECTING

Selecting Force value from 1 to 20 $\ensuremath{\text{N}}$

Modes:

Indication mode indication with color upon reaching a given Force

Automatic mode gives possibility saving to memory or transfer to app actual value upon reaching a given Force (1-20N).



CALIBRATION DATE

MENU SETTING

Calibration date info







DEVICE INFO

MENU SETTING

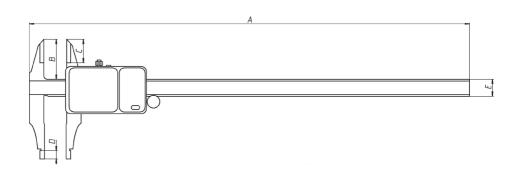


Information about device

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

DIMESIONAL DRAWINGS





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





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