



MICROTECH



COMPUTERIZED CALIPER

USER MANUAL



ISO17025:2017

ISO 9001
BUREAU VERITAS
Certification





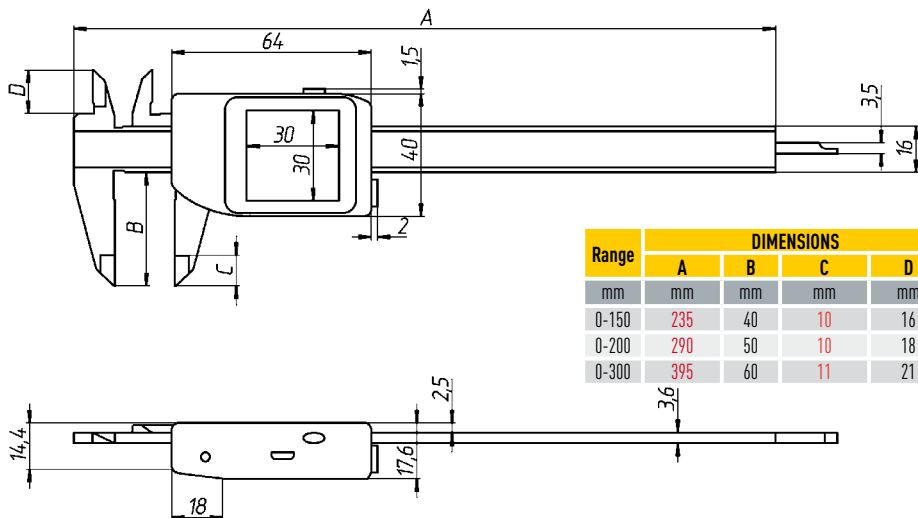
Item No	Range		Resolution	Accuracy	eForce	Carbide jaws	Preset	Go/NoGo	Max/Min	Formula	Timer	Temp comp	Linear corr	Calibr date	Connect status	Recharge batt	Memory	Wireless	USB	Color Display
	mm	inch																		
141097015A	0-150	0-6"	0,001	±5	1-20		•	•	•	•	•	•	•	•	•	•	Folders / 2000 val	Long range / HID	USB HID / Update	Touchscreen 1,54"
141077015A			0,005	±10			•	•	•	•	•	•	•	•	•	•				
141077015C				±20			•	•	•	•	•	•	•	•	•					
141077015B							•	•	•	•	•	•	•	•	•	•				
141097020A	0-200	0-8"	0,001	±8	1-20		•	•	•	•	•	•	•	•	•	Folders / 2000 val	Long range / HID	USB HID / Update	Touchscreen 1,54"	
141077020A			0,005	±10		•	•	•	•	•	•	•	•	•	•					•
141077020C				±20			•	•	•	•	•	•	•	•	•					
141077020B							•	•	•	•	•	•	•	•	•					•
141097030A	0-300	0-12"	0,001	±10	1-20		•	•	•	•	•	•	•	•	•	Folders / 2000 val	Long range / HID	USB HID / Update	Touchscreen 1,54"	
141077030A			0,005	±15		•	•	•	•	•	•	•	•	•	•					•
141077030C				±30			•	•	•	•	•	•	•	•	•					
141077030B							•	•	•	•	•	•	•	•	•					•

* For internal jaw and depth bar accuracy according DIN 862

Parameters	
LED display	color 1,54 inch
Resolution	240x240
Indication system	MICS 4.0
Power supply	Rechargeable Li-Pol battery
Battery capacity	300 mAh
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch (Multifunctional), Reset
Wireless data transfer	STANDARD / HID mode
USB data transfer	USB HID

TECHNICAL DATA

DIMESIONAL DRAWINGS

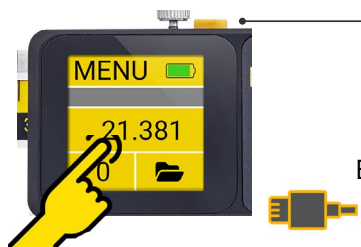


Range	DIMENSIONS			
	A	B	C	D
mm	mm	mm	mm	mm
0-150	235	40	10	16
0-200	290	50	10	18
0-300	395	60	11	21

MAIN INFO



MICROTECH



SWITCH ON DEVICE - button push (1 sec)

SWITCH OFF DEVICE - button push (2 sec)/ auto switch off

DATA TRANSFER - programming throw menu

BUILT-IN BATTERY - rechargeable Li-Pol battery



For charging connect USB cable

FORCE CONTROL

FORCE indication 1-20 N



FORCE 1-20N

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

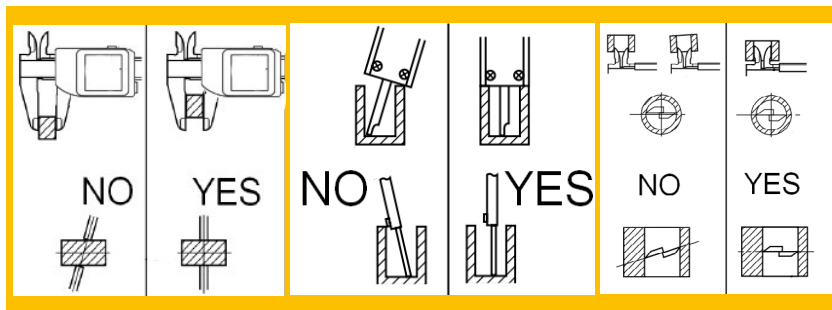
Green color indicating actual Force

Red color - over Force indicating

Auto 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 (push Force up to **Green** indication and push **0** button)

CORRECT MEASURING





MICROTECH

DATA TRANSFER

3 MODES OF DATA TRANSFER (USB + 2 WIRELESS MODES)

WIRELESS CONNECTION TO MDS APP



FREE SOFTWARE



WIRELESS data transfer to MICROTECH MDS app for Windows, Android, iOS

WIRELESS HID CONNECTION



KEYBOARD
MODE

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

USB HID CONNECTION

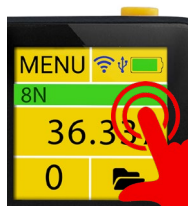


KEYBOARD MODE

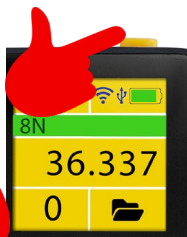
USB HID data transfer (like keyboard) direct to any customers app and system



7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



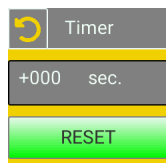
TOUCHSCREEN TAP



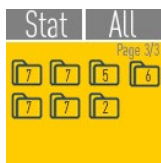
BUTTON PUSH



SELECTED FORCE



BY TIMER



FROM MEMORY



IN MDS APP



FROM PAIRED DEVICE

DOWNLOAD APP

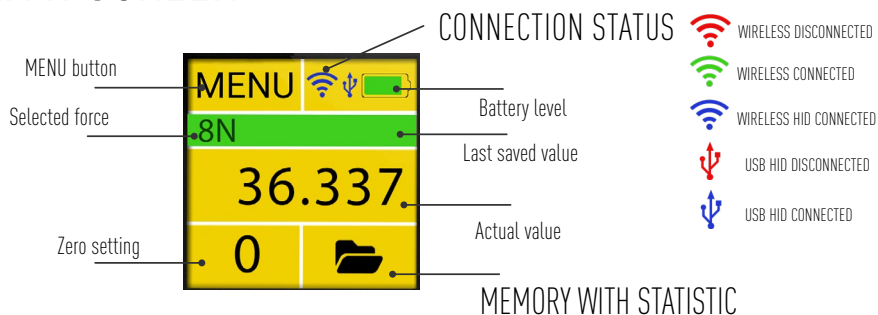


DOWNLOAD MDS APP FOR MICROTECH DEVICES WIRELESS CONNECTION FROM www.microtech.ua, GooglePlay & App Store

MAIN SCREEN

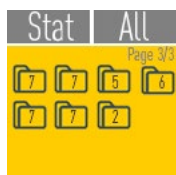


MICROTECH

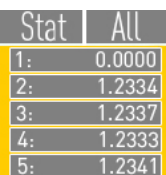


MEMORY

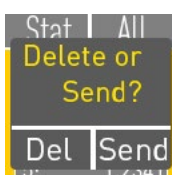
For save measuring data to internal caliper's memory touch data area on screen or button push. You can view saved data throw menu or send Wireless or USB connection to Windows PC, Android or iOS devices. You can save up to 2000 values to memory. It's possible to use Standard or Folders system.



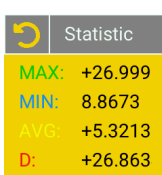
FOLDERS SYSTEM



MEMORY 2000 VAL.



MEMORY EXPORT



STATISTIC

Basic STATISTIC functions:

MAX - maximum saved value

MIN - minimum saved value

AVG - average value

D - difference between MAX & MIN

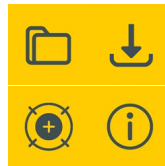
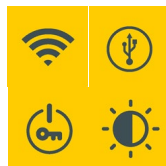
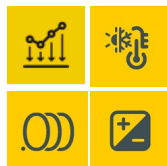
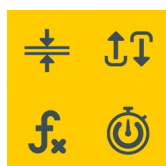
STANDARD or FOLDER system can be activated throw MEMORY menu

MENU STRUCTURE

MENU CONFIGURATION



USE TOUCHSCREEN TO
OPERATE MENU
SWIPE TO MOVE INSIDE



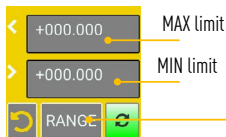


MICROTECH

FUNCTIONS



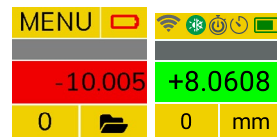
LIMITS



LIMIT's MODE

MAX - NoGo more MAX value
MIN - NoGo less MIN value
RANGE - Go between MIN & MAX
NONE - disactivating mode

MAIN SCREEN INDICATION



MAX/MIN



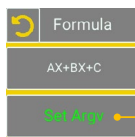
Indication and saving MAX or MIN values

ENABLE - activating mode
MAX - indicating MAX measured value
MIN - indicating MIN measured value

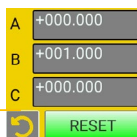
MAIN SCREEN INDICATION



FORMULA



FORMULA Ax^2+Bx+C



EXAMPLE OF FORMULA USING

Standard measuring	A=0, B=1, C=0
PRESET 50mm	A=0, B=1, C=50
Value magnification x3	A=0, B=3, C=0
Square value	A=1, B=0, C=0

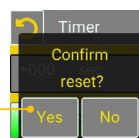


TIMER



Saving data to memory or sending Wireless/USB by Timer

Select timer period
 Reset to disactivate mode



LINEAR COMPENSATION



Select all points
 Add new point for
 error compensation

Linear correction error's on device



actual values
 correct values by up&down button
 confirm point correction



TEMP COMPENSATION



7 types of material for selection
 Manual Temperature setting

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



RESOLUTION



Resolution selecting
 mm/inch conversion

MAIN SCREEN INDICATION

+8.0608



AXIS



Selecting normal or inverted axis mode
 (+/- value indication)
 Selecting base reading options

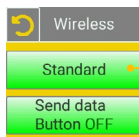
FUNCTIONS



MICROTECH



WIRELESS



WIRELESS Standard mode - data transfer to MDS App for Android, iOS, Windows
WIRELESS HID mode- direct transfer data to any App in Windows, MacOS, Linux, Android devices (like keyboard). Configure data format in USB sub-menu



USB



Connect USB cable to PC & Activate USB HID connection mode
Select setting of data transfer
You can direct transfer data to any App in Windows, MacOS, Linux, Android devices (like keyboard)
ACTIVATE FIRMWARE UPDATE IF NECESSARY



RESET



RESET to factory settings



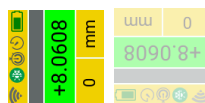
DISPLAY



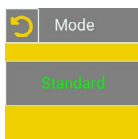
Display rotation 0°, 90°, 180°, 270°

- 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



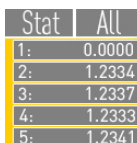
MEMORY



Activating STANDARD or FOLDER SYSTEM



FOLDERS SYSTEM



MEMORY 2000 VAL.

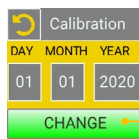


FORCE

Selecting Force value from 1 to 20 N

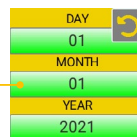
Indication mode indication with color upon reaching a given Force

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



Calibration date info

Push for change date info



CALIBRATION



INFO



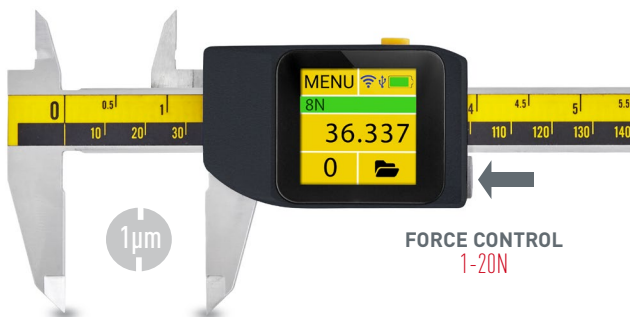
Information about device

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



MICROTECH

INDUSTRY 4.0 INSTRUMENTS



MICROTECH

innovative measuring instruments

61001, Kharkiv, Ukraine, str. Rustaveli, 39

tel.: +38 (057) 739-03-50

www.microtech.ua

tool@microtech.ua

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