

MICRON INTELLIGENT COMPUTERIZED HEIGHT GAUGE

USER MANUAL





Item No	Range		Resolution		Accuracy	Fine adjust. wheel with Force	Base
	mm	inch	mm	inch			
1443030263	0-300	0-12	0,001	0.00005"	±20	8N	Cast iron
1443030266					±15	8N	Granite gr.00
1443060263	0-600	0-24	0,001	0.00005"	±30	8N	Cast iron
1443060266					±25	8N	Granite gr.00

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 (Multifunctional), Reset
Wireless data transfer	up to 50m on open area

Clean the oil from the measuring surfaces of gauge by cloth.

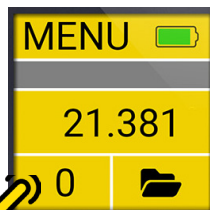
For recharging caliper (Li-Pol rechargeable battery) connect it with standard USB cable to charger device.

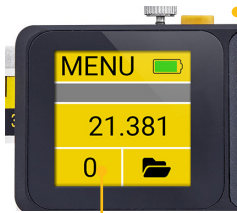
**DO NOT LEAVE UNCHARGED CALIPER FOR A LONG TIME.
THIS MAY RESULT TO INTERNAL BATTERY FAILURE!**

BASE RECONNECTION

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

**PUSH ZERO button (5sec.) on main screen
or quick move computerized block on all range**





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 2 sec to ZERO setting

CHARGING



BUILT-IN BATTERY - rechargeable Li-Pol battery

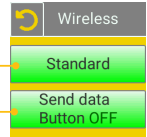


For charging connect USB cable



Activate WIRELESS data transfer in WIRELESS menu

Switch on Wireless data transmission
Activating multifunctional button to save value to memory or send data by touchscreen or button push



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

- by Touchscreen
- by Multifunctional button push (activated in Wireless menu)
- by Timer (activated in Timer menu)
- from Internal Memory

MEMORY

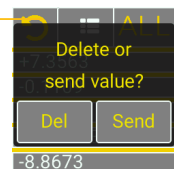
For save measuring data to internal caliper's memory touch data area on screen or short button push. You can view saved data through menu or send Wireless connection to Windows PC, Android or iOS devices.

Basic STATISTIC functions:

- MAX - maximum saved value
- MIN - minimum saved value
- AVG - average value
- D - variance VAR(x)

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

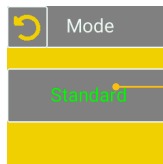
Saved values
Each value can be Deleted or Send to application



Button ALL select all values
All values can be Deleted or Send to application

MEMORY settings

Memory sub-menu



Selecting Standard mode or No saving data to internal memory



WIRELESS CONNECTION



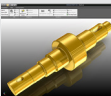
USB-DONGLE



DOWNLOAD



SAVING DATA TO XLS. CSV FORMATS



TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE



TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS



DOWNLOAD



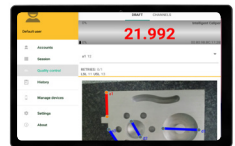
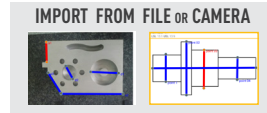
SAVING DATA TO XLS. CSV FORMATS



SAVING GRAPH



VOICE MODE



DOWNLOAD



SAVING DATA TO XLS. CSV FORMATS



SAVING GRAPH



VOICE MODE



QUALITY CONTROL RESULTS

DATA TRANSFER DISTANCE FOR INTELLIGENT INSTRUMENTS

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



USE TOUCHSCREEN TO OPERATE MENU

MENU button **MENU** Battery level

Colour can be changed according function **-0.0000** Actual value

Zero setting (2sec) **0** Memory

MEMORY WITH STATISTIC

		ALL		Statistic
+7.3563			MAX:	+26.999
-0.1109			MIN:	8.8673
+1.2293			AVG:	+5.3213
+26.9993			D:	+26.863
-8.8673				

MENU CONFIGURATION



MAIN MENU



< +000.000

> +000.000

MIN

LIMITS

color Go/NoGo

Max/Min

Enable

Go

MAX/MIN

indicating max or min value

Formula

AX+BX+C

Set Argv

FORMULA MODE

Ax^2+Bx+C

Timer

+000 sec.

RESET



0.8970

0.8920

OK

RESET

ERROR COMPENSATION

mathematical correction

Temp.comp.

Range:Quartz

Solid alloys, Mo

+00.00

TEMPERATURE COMPENSATION

manual correction

Resolution

X.0000

Millimeters

RESOLUTION

selected up to 0.0001mm

Extra

Axis Mode

Normal

CONNECT



Wireless

Standard

Send data

Button OFF

WIRELESS

modes of data transmission

Mode OFF

UART OFF

Keypad ON

USB OFF

USB

USB connection configuration

Device

FIN

RESET

DEVICE SETTING

pin, reset

Display

Angle 180

Sleep OFF



Mode

Standard

MEMORY SETTING

Link to software



SOFTWARE

link to download app

Calibration

BAY MONTH YEAR

01 01 2020

CHANGE

CALIBRATION DATE

MICROTECH

www.microtech.ua

COMP CALIPER 1

FW: 3.0.5

MAC: 12345



LIMITS GO/NOGO

MENU SETTING **Colour indication limits** **MAIN SCREEN INDICATION**

MAX value MIN value RANGE zero values	<p>MAX - NoGo more MAX value MIN - NoGo less MIN value RANGE - Go between MIN & MAX NONE - disactivating mode</p>	<p>MENU </p> <p>-10.005</p> <p>0 </p> <p>NoGo</p>	<p></p> <p>+8.0608</p> <p>0 mm</p> <p>Go</p>
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MAX/MIN

MENU SETTING **Indication and saving MAX or MIN values** **MAIN SCREEN INDICATION**

Max/Min Enable MAX	<p>ENABLE - activating mode MAX - indicating MAX measured value MIN - indicating MIN measured value</p>	<p>MENU </p> <p>-2.9184</p> <p>0 </p> <p>MIN</p>	<p>MENU </p> <p>7.2241</p> <p>0 </p> <p>MAX</p>
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FORMULA

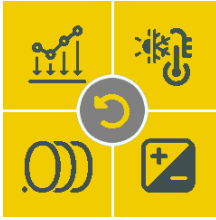
MENU SETTING **FORMULA Ax^2+Bx+C** **EXAMPLE OF FORMULA USING**

Formula: Ax^2+Bx+C AX+BX+C Set Argv RESET	<p>Long push digit to select value Reset to zero arguments</p>	<p>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</p>
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TIMER

MENU SETTING **Saving data to memory or sending Wireless by Timer**

Timer +000 sec. RESET	<p>Select timer period Reset to disactivate mode</p>	
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MATHEMATICAL ERROR COMPENSATION

MENU SETTING

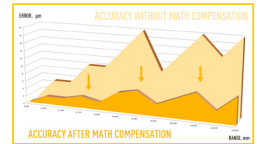
Mathematical correction points with big error to normal values



actual values

correct values by up&down button

confirm point correction



use gauge blocks or measuring machine for points correction

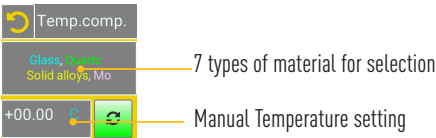
TEMPERATURE COMPENSATION

MENU SETTING

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

7 types of material:

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



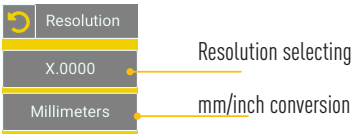
7 types of material for selection

Manual Temperature setting

RESOLUTION

MENU SETTING

MAIN SCREEN INDICATION



Resolution selecting

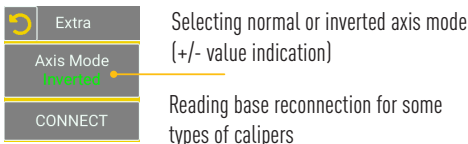
mm/inch conversion

+8.0608

Selecting resolution of value on main screen and memory

EXTRA (Axis mode)

MENU SETTING



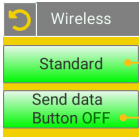
Selecting normal or inverted axis mode (+/- value indication)

Reading base reconnection for some types of calipers



WIRELESS CONNECTION

MENU SETTING Activating or deactivating wireless data transfer



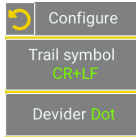
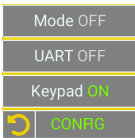
Switch on Wireless data transmission

Activating multifunctional button to save value to memory or send data by touchscreen or button push



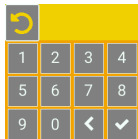
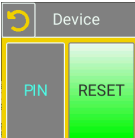
USB CONNECTION

MENU SETTING USB connection mode under construction



PIN & RESET

MENU SETTING Activating PIN to device setting



RESET to factory settings



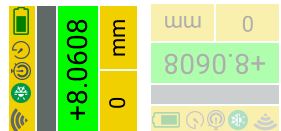
DISPLAY SETTING

MENU SETTING DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE



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)





MEMORY SETTINGS

MENU SETTING Activating or disactivating saving values to memory



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

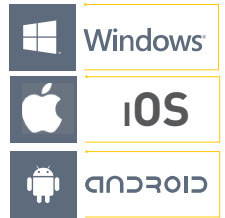
↻	☰	ALL
+7.3563		
-0.1109		
+1.2293		
+26.9993		
-8.8673		

LINK TO SOFTWARE

MENU SETTING

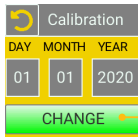


QR Link to MICROTECH web site page with MDS Software download
- Android, iOS, Windows versions
- Free and Pro versions
- Manuals



CALIBRATION DATE

MENU SETTING Calibration date info



Push for change date info

DAY	↻
01	
MONTH	
01	
YEAR	
2021	

DEVICE INFO

MENU SETTING

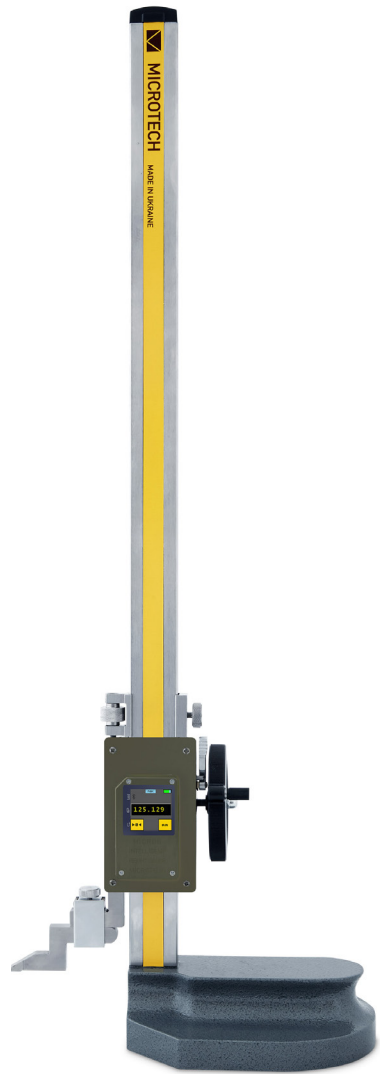


Information about device
- device name
- firmware version
- MAC adress for easy connection





MICROTECH



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Change without prior notice

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