



MICROTECH



COMPUTERIZED HEIGHT GAUGE

USER MANUAL



Calibration ISO 17025:2017

ISO 9001
BUREAU VERITAS
Certification



ISO 9001:2015



FORCE COMPUTERIZED HEIGHT GAUGE

Item No	Range	Resolution	Accuracy	Force control	Base	Functions	Data output		Calibration
	mm	mm	mm				USB	Wireless	ISO 17025
1443030262	0-300	0,01	±0,030	12N	Cast iron	Error & Temp	+	max 50 m	+
1443050262	0-500	0,01	±0,040	12N	Cast iron	comp. Preset.	+	max 50 m	+
1443100262	0-1000	0,01	±0,050	12N	Cast iron	Memory	+	max 50 m	+
1443150262	0-1500	0,01	±0,070	12N	Cast iron	Max/Min	+	max 50 m	+
1443200262	0-2000	0,01	±0,090	12N	Cast iron	Limits	+	max 50 m	+

FORCE WHEEL COMPUTERIZED HEIGHT GAUGE

Item No	Range	Resolution	Accuracy	Fine adjust. wheel with Force	Functions	Data output		Calibration
	mm	mm	mm			USB	Wireless	ISO 17025
1443030264	0-300	0,01	±0,030	8N	Error & Temp	+	max 50 m	+
1443050264	0-500	0,01	±0,040	8N	comp. Preset.	+	max 50 m	+
1443060264	0-600	0,01	±0,040	8N	Memory	+	max 50 m	+
					Max/Min	+	max 50 m	+
					Limits	+	max 50 m	+

Clean the oil from the measuring surfaces of height 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!**

Turn on caliper by pressing ON button (1 sec).

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 position setting.

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 throw USB or Wireless connection to Windows PC, Android or iOS devices. All functions of caliper you can see on p.5 of instruction or in demo video on www.microtech.ua



- SWITCH ON DEVICE** - button push (1 sec)
- SWITCH OFF DEVICE** - auto switch off (configuring throw DISPLAY SETTING menu)
 - button push (3 sec)
- ZERO SETTING** - 0 button in Touchscreen display



SOMETIMES NECESSERY RECONNECT READING BASE - PUSH CONNECT (5sec.) IN EXTRA SUB-MENU.

Parameters	
LED display	1,5 inch
Power supply	Rechargeable Li-Pol battery
Lifetime	>80h (Medium brightness)
Charging port	micro-USB
Measuring force	8N
Wireless data transfer	15m/ 50m with external antenna (from set)

CHARGING

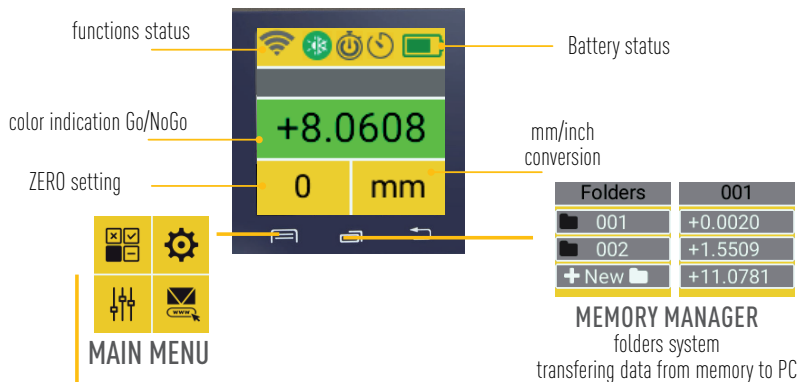
For charging connect USB cable



Charging process indicating on Battery status (switch on device)



BUILT-IN BATTERY - rechargeable Li-Pol battery

**LIMITS**

color Go/NoGo

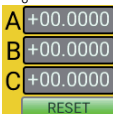
Max/Min

Enable

MAX

MAX/MIN

indicating max or min value

**FORMULA MODE** Ax^2+Bx+C

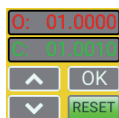
Timer

+000 sec.

RESET

TIMER MODE

saving or transfer data on timer

**ERROR COMPENSATION**

mathematical correction

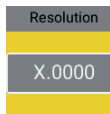
Temp. comp.

None Mode

+25.00 C

TEMPERATURE COMPENSATION

manual correction 4 materials

**RESOLUTION**

selected up to 0.0001mm

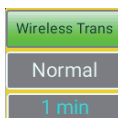
Extra

Axis Mode

Normal

AXIS MODE

normal or inverted

**WIRELESS**

modes of data transmission

Mode OFF

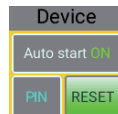
UART OFF

Keypad ON

CONFG

USB

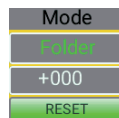
USB connection configuration

**DEVICE SETTING**

autostart, reset, password

**SCREEN SETTING**

screen rotation, brightness

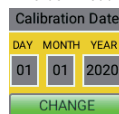
**MEMORY SETTING**

folder configuration

Link to software

**SOFTWARE**

link to download app

**CALIBRATION STATUS**

calibration date control

**DEVICE INFO**

service info about device



WIRELESS CONNECTION



USB-DONGLE



Windows

DOWNLOAD



**SAVING DATA
TO XLS. CSV
FORMATS**



**TRANSFER DATA TO
CAD, SPC OR OTHER
SOFTWARE**



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



iOS

DOWNLOAD



**SAVING DATA
TO XLS. CSV
FORMATS**



**SAVING
GRAPH**



**VOICE
MODE**



ANDROID

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



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FUNCTIONS

LIMITS GO/NOGO

MENU SETTING

+00.0001

> +00.0001

MIN

MAIN SCREEN

+8.0608

0 mm

NoGo Go NoGo

MAX - NoGo over MAX value
 MIN - NoGo over MIN value
 RANGE - selecting GO range
 NONE - No active mode

MAX/MIN

Max/Min

Enable

MAX

Status indication on main screen

+8.0608

0 mm

ENABLE/DISABLE mode indicating MAX dvalue indicating MIN value

FORMULA

A +00.0000

B +00.0000

C +00.0000

RESET

EXAMPLES:

- for value x2 - B=2
- set PRESET 100mm C=100
- square value A=1

Aavailable Formulas:
 - Ax^2+Bx+C
 -Radius (for indicators)
 -Sphere (for indicators)

TIMER

Timer

+000 sec.

RESET

Timer indication on main screen

+8.0608

0 mm

Saving or transfer data by Timer
 Select timer period
 For disactive - reset to zero

MATH. ERROR COMPENSATION

0. 01.0000

0. 01.0000

OK

RESET

Red value

- actual value on instrument

Green value

- compensated value

Use up&down button to update actual value (green) to correct value.
 For compensation correction - push OK.
 After points correction computerized instrument will recalculate values according corrected points

TEMPERATURE COMPENSATION

Temp. comp.

Glass, Quartz

Solid alloys, Mo

+25.00 C

RECYCLE

+8.0608

0 mm

Re-calculation value for calibration conditions 20C
 7 types of materials for selection
 Manual temperature setting

RESOLUTION

Resolution

X.0000

+8.0608

Selecting instrument resolution

EXTRA (Axis mode)

Extra

Axis Mode

Normal

+/- value indication

+8.0608

0 mm

Selecting normal or inverted axis mode



FUNCTIONS



MICROTECH

WIRELESS CONNECTION

Wireless Trans

Normal

1 min

WIRELESS status

+8.0608

0 mm

USB CONNECTION

Mode OFF

UART OFF

Keypad ON

CONFIG

PIN

Device

Auto start ON

PIN RESET



DISPLAY SETTING

Angle 0

Sleep off

Rotation 0, 90, 180, 270

Sleep mode

Brightness level

+8.0608

0 mm

8090'8+

MEMORY MANAGER SETTINGS

Mode

001

Folder

+0.0020

+000

+1.5509

RESET

+11.0781

- Standard / Folder mode

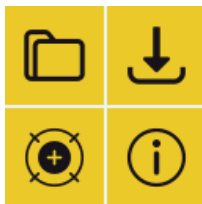
In Folder mode possible to set qty values in each folder.

LINK TO SOFTWARE

Link to software

Link to page with MDS Software download

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



CALIBRATION DATE

Calibration Date

DAY MONTH YEAR

01 01 2020

CHANGE

Saving or transfer data by Timer

Select timer period

For disactive - reset to zero

DEVICE INFO

app@microtech.ua

F411RE

FW: 1.1.1

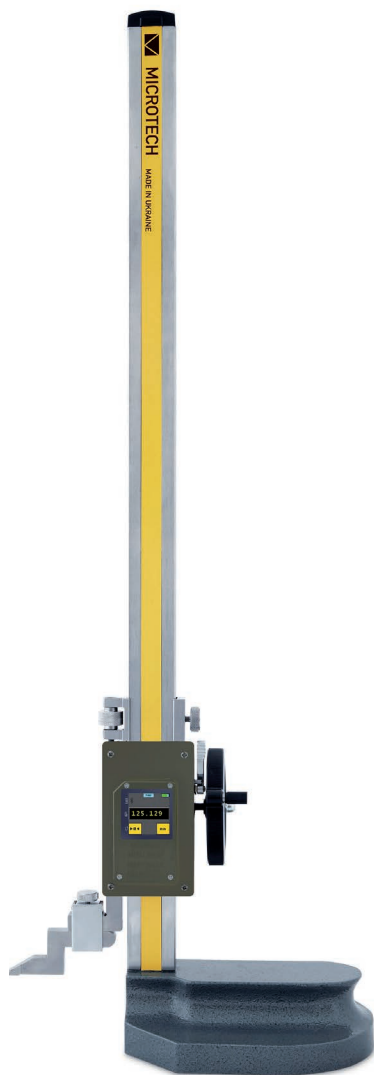
MAC: 00000

ID: 00000000

Information about firmware version and MAC adress for easy connection



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Change without prior notice

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