Manuals+ — User Manuals Simplified.

Microtech 1250711206 EXTERNAL SPHERE Computerized Gauge User Manual

Contents

Microtech 1250711206 EXTERNAL SPHERE Computerized Gauge

SPECIFICATION

Item No	Radius		Resolution	Display	Data output
	Range	Type			
	mm	inch	µm		
1250711206	320-1250	12-50" external	1	Color 1.5" Touch-screen	**WIRELESS+USB**

Come throw menu to Formula mode and select SPHERE formula. Set ZERO possition on flat platfrom and push ZERO button, then you can meake measuring. (In ranges close to Zero – will be indicating big values, about formula recalculation from linear to radius measurings, don't care for this)

TECHNICAL DATA

LED display	color 1,54 inch
Resolution	240×240
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

CHARGING

MENU
1.5337
0

BUILT-IN BATTERY - rechargeable Li-Pol battery

For charging connect USB cable
Charging process indicating
on Battery status
(switch on device)

MENU
355.4280
0

MICS indication system
hi-res colour Touchscreen

Multifunctional button

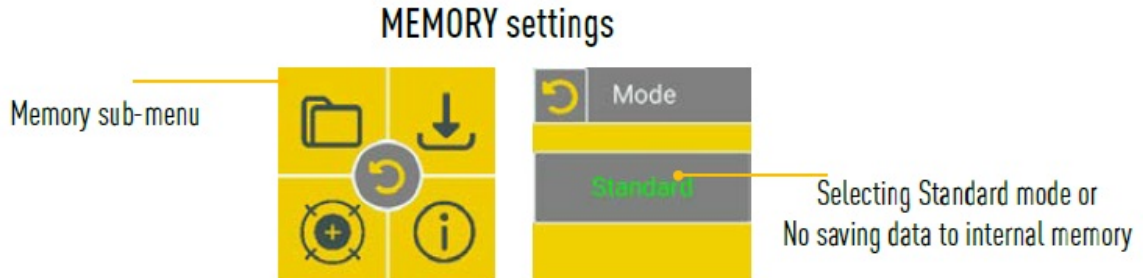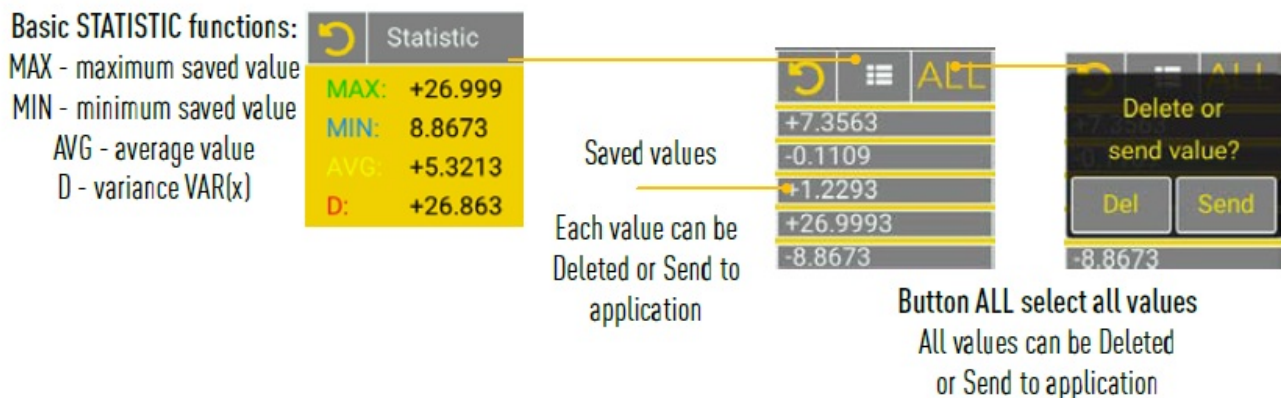R325–1250mm
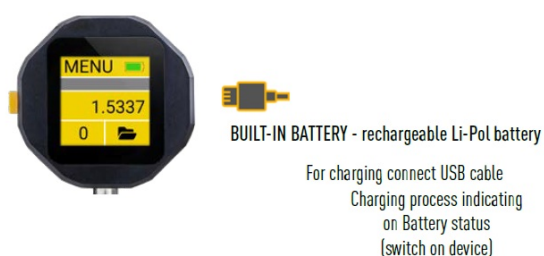
WIRELESS DATA TRANSFER

Activate WIRELESS data transfer in CONNECTION menu:

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

- by Touchscreen
- by Multifactinal button push (activted in CONNECTION menu)
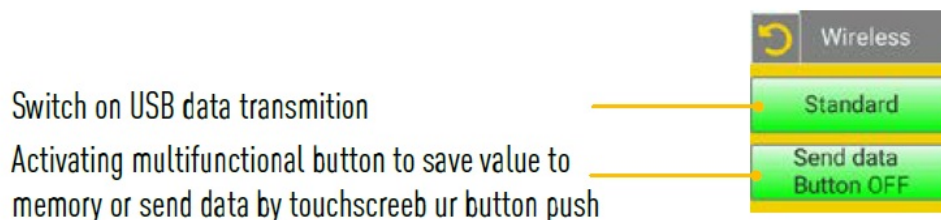- by Timer (activated in Timer menu)
- from Internal Memory

MEMORY
For save measuring data to internal caliper's memory touch data area on screen or short button push. You can view saved data throw 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
MAX:	+26.999
MIN:	8.8673
AVG:	+5.3213
D:	+26.863

Saved values

	ALL
+7.3563	
-0.1109	
+1.2293	
+26.9993	
-8.8673	

Each value can be Deleted or Send to application

Delete or send value?

Del   Send

-8.8673

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

MEMORY settings

Memory sub-menu

Mode
Standard

Selecting Standard mode or
No saving data to internal memory

USB DATA TRANSFER

CONNECT MICRO-USB CABLE TO RADIUS GAUGE FIRSTLY

Activate USB data transfer in CONNECTION menu. Data will be send in USB HID mode to any app directly

Switch on USB data transmition

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

Wireless
Standard
Send data Button OFF

Configure USB data transfer format

Configurate USB data transfer format

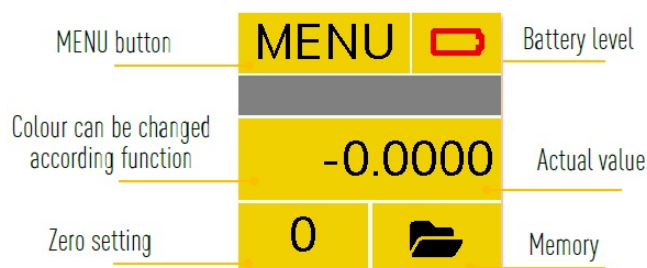| Configure |
|---|
| Trail symbol CR+LF |
| Devider Dot |

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

- by Touchscreen
- by Multifactinal button push (activted in CONNECTION menu)
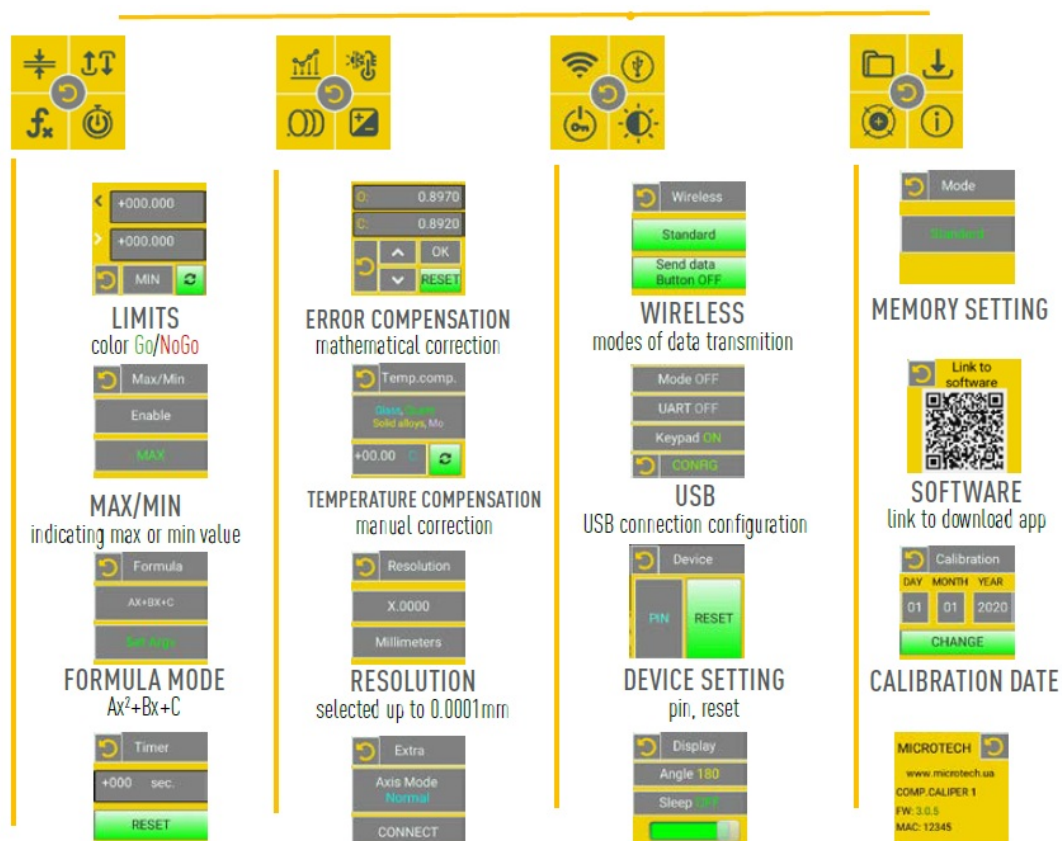- by Timer (activated in Timer menu)
- from Internal Memory

MENU NAVIGATION

USE TOUCHSCREEN TO OPERATE MENU.

MICS SYSTEM FUNCTIONS

LIMITS GO/NOGO

MENU SETTING

+000.000	MAX value
+000.000	MIN value
RANGE	zero values

Colour indication limits

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

MAIN SCREEN INDICATION

MENU		MENU	
-10.005		+8.0608	
0		0	mm
NoGo		**Go**	

MAX/MIN

MENU SETTING

| Max/Min |
| Enable |
| MAX |

Indication and saving MAX or MIN values

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

MAIN SCREEN INDICATION

MENU		MENU	
-2.9184		7.2241	
0		0	
MIN		**MAX**	

FORMULA

MENU SETTING

| Formula |
| AX+BX+C |
| Set Argv |

A	+000.000
B	+001.000
C	+000.000
RESET

FORMULA Ax^2+Bx+C

Formula:
Ax^2+Bx+C

Long push digit
to select value

Reset to zero arguments

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

MENU SETTING

| Timer |
| +000 sec. |
| RESET |

Saving data to memory or sending Wireless by Timer

Select timer period
Reset to disactivate mode

| Timer |
| Confirm reset? |
| Yes | No |

MATHEMATICAL ERROR COMPENSATION

MENU SETTING

| ALL |
| Add |

Select all points

Add new point for
error compensation

Mathematical correction points with big error to normal values

0:	0.8970
C:	0.8920
^	OK
v	RESET

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
- alluminium, al alloys
- acrylic sheet

Temp.comp.

Glass, Quartz, Solid alloys, Mo — 7 types of material for selection

+00.00 — Manual Temperature setting

RESOLUTION

MENU SETTING

Resolution

X.0000 — Resolution selecting

Millimeters — mm/inch conversion

MAIN SCREEN INDICATION

+8.0608

Selecting resolution of value on main screen and memory

EXTRA (Axis mode)

MENU SETTING

Extra

Axis Mode Inverted — Selecting normal or inverted axis mode (+/- value indication)

CONNECT — Reading base reconnection for some types of calipers

CONNECTION

MENU SETTING

Activating or disactivating wireless data transfer

Wireless

Standard — Switch between Wireless/USB/ no data

Send data Button OFF — Activating multifunctional button to save value to memory or send data by touchscreeb ur button push

USB CONFIGURATION

MENU SETTING

Mode OFF

UART OFF

Keypad ON

CONFIG

Configure

Trail symbol CR+LF

Devider Dot

PIN & RESET

MENU SETTING

Activating PIN to device setting

RESET to factory settings

Device
PIN | RESET

1 2 3 4
5 6 7 8
9 0 < ✓

Device
Confirm reset?
Yes | No

DISPLAY SETTING

MENU SETTING

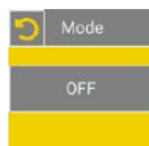**DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE**
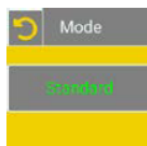
Display
Angle 180
Sleep ON

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)

+8.0508 mm 0

ատ 0
8090˙8+

MEMORY SETTINGS

MENU SETTING

Activating or disactivating saving values to memory

Mode
Standard

Mode
OFF

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

ALL
+7.3563
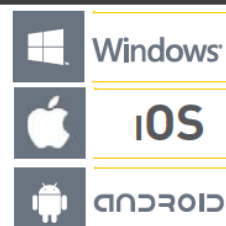-0.1109
+1.2293
+26.9993
-8.8673

LINK TO SOFTWARE

MENU SETTING

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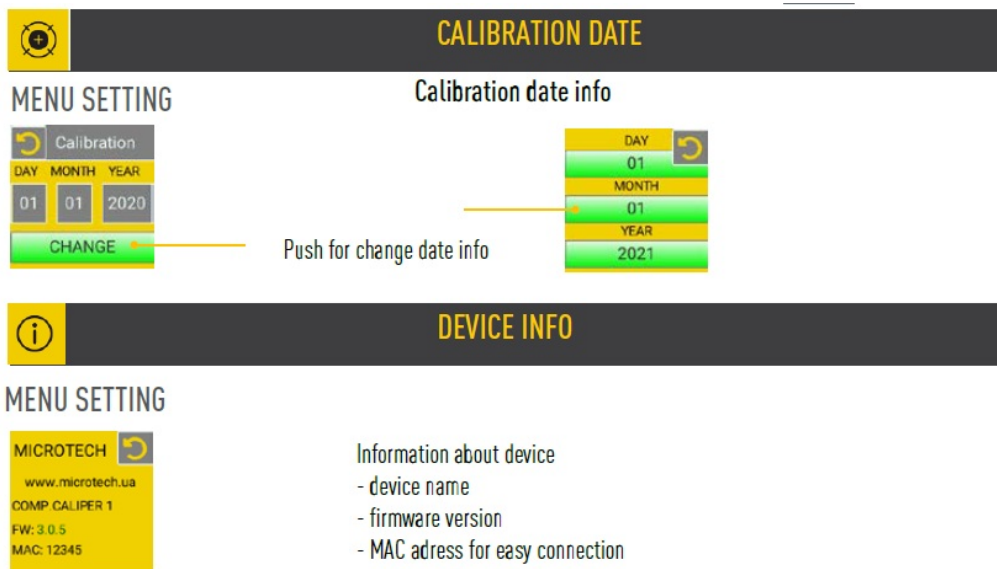
QR Link to MICROTECH web site page
with MDS Software download
- Android, iOS, Windows versions
- Free and Pro versions
- Manuals

Windows
iOS
ANDROID

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Documents / Resources

	Microtech 1250711206 EXTERNAL SPHERE Computerized Gauge [pdf] User Manual 1250711206 EXTERNAL SPHERE Computerized Gauge, 1250711206, EXTERNAL SPHERE Computerized Gauge, SPHERE Computerized Gauge, Computerized Gauge, Gauge

References

- **Main page - MICROTECH - Innovative measuring instruments**